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Petroleum Supply Monthly



September 1983

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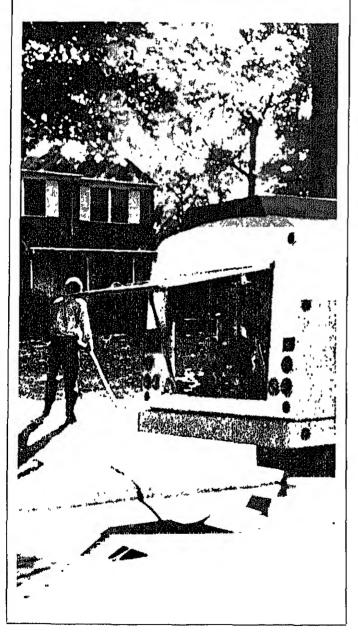




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This Month in the PSM

This issue of the Petroleum Supply Monthly features "Distillate Fuel Oil Overview: Winter 1983-84" (p. ix). This article discusses the outlook for distillate fuel oil during the upcoming heating season based on projections from the Energy Information Administration's most recent Short-Term Energy Outlook. This article is followed by "Fuel Oil Trends" (p. xi). This article provides a petroleum overview and highlights distillate and residual fuel oil. A third article, "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves," (p. xvi) presents an advance summary of information from the U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1982 Annual Report scheduled for release next month by the Energy Information Administration.



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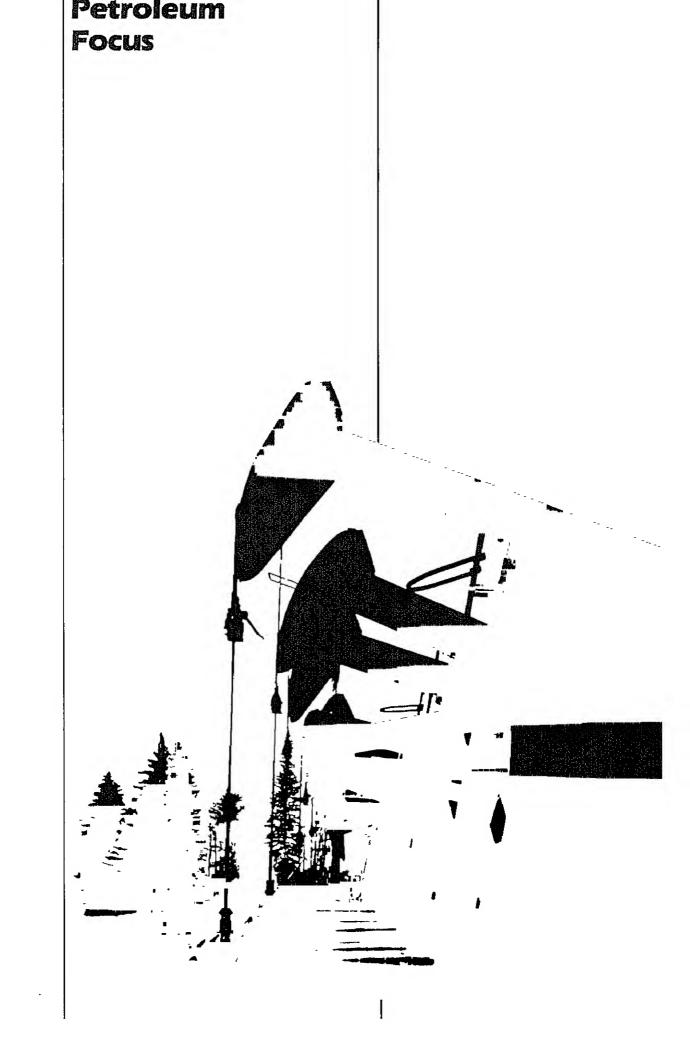
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Petroleum Supply Summary

		August		C	umulative Jan Through Augi	
Average Volume for Perlod (Million Barrels Per Day)	1983	1982	% Change	1983	1982	
Total Product Supplied	15,2	14,8	2.3	14.9	15.4	
Motor Gasoline	7.0	6.6	5.4	6.6	6.6	
Distillate Fuel Oil	2,4	2.2	9.4	2,6	2.7	
Residual Fuel Oll	1.3	1.5	- 17.6	1.4	1.8	
Crude Inputs to Refineries Crude Oil and Natural Gas	12.3	11.9	3.2	11.6	11.8	- 1.5
Liquids Production	10.2	10.2	0.3	10.2	10.2	0.3
Net Imports ¹	5.3	4.4	20.8	4.0	4.2	- 5.6
Net Crude Oll Imports ²	3.7	3.3	9.4	2.8	3.1	- 9.5
SPR Imports	0.3	0.2	58.7	0.2	0.2	44.8
Net Product Imports	1.3	0.8	56.9	1.0	1.0	- 2.1
Crude Oll Stock Withdrawal ²	- 0.11	- 0.23		0.02	0.04	
Product Stock Withdrawal	- 0.43	- 0.04		0.22	0.44	
Stocks at End of Period (Million Barrels)				200		
Crude Oll ²	350	353	NM			
Motor Gasoline ³	223	227	NM			
Distillate Fuel Oil	142	159	NM			
Residual Fuel Oll	46	53	NM			
Total Product	756	782	NM			
SPR	351	274	28.4			
Total	1,458	1,408	NM			

^{&#}x27;Gross Imports of crude oil including Strategic Petroleum Reserve (SPR) and petroleum products less exports of crude oil and petroleum products.

²Excluding SPR.

³Including blending components.

NM = Not meaningful due to new stock basis.

Note: Percent changes are based on unrounded values. August 1983 data are estimates based on weekly data, except for export and the second of Natural Gas Liquids Production estimates which are July 1983 monthly values. Totals may not be equal to sum of components due to Independent rounding.

Source: Energy Information Administration, Petroleum Supply Monthly, September 1983.

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Distillate Fuel Oil Overview: Winter 1983-84

The Energy Information Administration (EIA) projects an average demand level of about 3.2 million barreis per day (MMBD) for distillate fuel oil, during the winter of 1983-84 (October 1983 through March 1984). EIA's projections assume economic recovery, normal weather, and stable or falling prices.\(^1\) The projected demand is about 17 percent higher than the abnormally low winter 1982-83 level of 2.7 MMBD. Despite lower distillate inventories than any end-of-August levels in the last decade, ample time, refining capacity, crude oil stocks, and import capability exist to generate sufficient supplies to meet expected winter demand.

These demand projections are predicated on an average retail price for No. 2 heating oil about 9 cents per gallon less than last winter's average of \$1.16 per gallon. EIA's forecast also assumes a return to normal winter weather. Last winter was the warmest in 30 years, and the population-weighted heating-degree days were about 8 percent below normal. Also, a substantial increase in industrial production over winter 1982-83 levels is assumed.

Distillate demand is highly seasonal, peaking in the winter and falling off in the summer. Seasonal fluctuations in demand have diminished somewhat over the last decade with the steady growth of non-heating uses of distillate. In 1982, half of all deliveries of distillate fuel oil were for transportation uses.

Each summer, refinery production of distillate exceeds demand as refiners build stocks for the heating season. Distillate production reached 2.6 MMBD in August 1983, approximately 0.2 MMBD above demand levels. In recent years, up to 20 percent of production from May through September has been used for building stocks of distillate fuel oils to their seasonal peaks. Distillate production is greatest during the winter months. In 1982, production peaked in November when production rates of 2.9 MMBD were reached. Thus far in 1983, refinery utilization has ranged between 65 and 75 percent. Thus, the capacity exists to produce distillate at 1982 rates or higher and allow refiners to meet demand while building stocks for the heating season.

'Energy Information Administration, Short-Term Energy Outlook (August 1983), DOE/EIA 0202(83/3Q)-1, (Washington, D.C., 1983).



Crude oil supplies needed for increased production levels are readily available. Crude oil stocks have measured between 341 and 366 million barrels in the past year and were 350 million barrels at the end of August. Crude oil supplies are also available from foreign sources, at prices below those of 1982: the first quarter 1983 crude oil refiner acquisition cost averaged \$29.61 per barrel compared to \$33.05 in the first quarter of 1982. Imported crude oil has been slightly less expensive than domestic crude oil since March 1983, and crude oil imports have revived accordingly.

About 19-20 percent of the yield from refineries is distillate fuel oil, while over twice that amount, on the average, is gasoline. Efforts to build distillate inventories through increased refinery utilization would produce large quantities of motor gasoline. Gasoline demand was essentially flat this past summer, and motor gasoline inventories are at a comfortable level. Thus, there is not a strong incentive to build distillate inventories through production alone, as this could result in larger than desired gasoline inventories.

The alternative to building inventories through production is to increase net imports (gross imports minus exports). Between 1973 and 1981, net imports accounted for 5 to 12 percent of distillate product supplied on an annual basis, but the pattern for net imports of distillate

changed in 1982. Net imports were equivalent to less than 1 percent of demand. Gross imports averaged 93,000 barrels per day, their lowest level in a decade, but, the most notable change was the development of sizable distillate exports. Distillate exports, which had never in the last decade exceeded an annual average of 9,000 barrels per day, reached 74,000 barrels per day. In some months of 1982, exports even exceeded imports and continued to do so in the first three months of 1983.

The top sources of Imports In 1982, and for the first four months of 1983, were Western Hemisphere locations (the Virgin Islands, Canada, Puerto Rico, and Venezuela); the top export destinations were more diverse (Japan, Mexico, and the Netherlands). Thus far in 1983, exports have been averaging slightly more than in 1982, with the Far East continuing as the most frequent destination.

Although distillate inventories were at their lowest endof-August levels in more than a decade, the refining capability, crude oil stocks, and import capability are available to meet demand during the upcoming winter heating season. These sources can be tapped well in advance of the peak consumption period from December through February.

Fuel Oil Trends

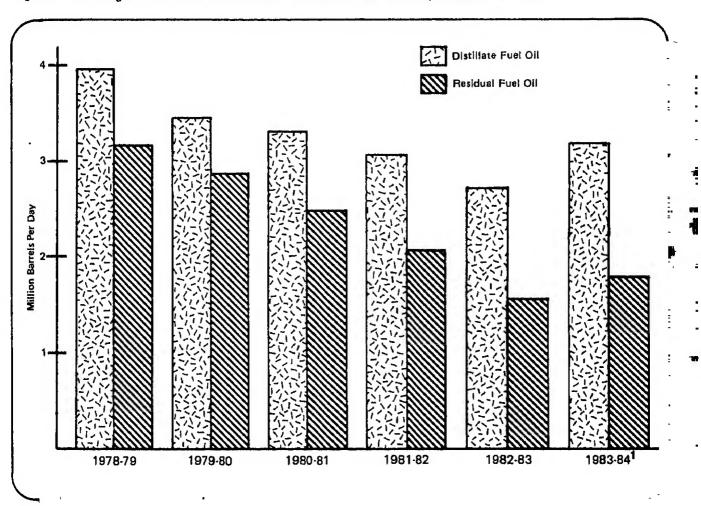
Demand for distillate and residual fuel oils during the coming winter is expected to be well below the peak levels of 5 years ago, but higher than the unusually low levels of the 1982-83 heating season. (See Figure 1). Demand has fallen each year since 1978, because of higher prices, low levels of economic activity, unseasonably mild weather, conservation practices, and fuel switching. Proportionally, the use of distillate fuel oil for home heating has declined, while transportation use of distillate fuels has increased, thereby reducing the amplitude of seasonal differences. Regional distillate demand patterns have changed only slightly. The use of residual fuel oil for electricity generation, the principal end use for this fuel, has also declined steadily over the 5-year period.

Petroleum Overview

Demand for petroleum products peaked in 1978, when the United States consumed an average of 18.8 million barrels per day (MMBD). Since then, a number of factors have contributed to changes in demand for petroleum products including distillate and residual fuels. Some of these factors are:

NOTE: Unless otherwise referenced, the data contained in this article are based on petroleum supply statistics published by the Energy information Administration (EIA) in the Weekly Petroleum Status Report DOE/EIA-0208(83/36), Petroleum Supply Monthly DOE/EIA-0109(83/09), Petroleum Supply Annual DOE/EIA-0340(83/1 and 2) and predecessor reports. EIA's Short-Term Energy Outlook DOE/EIA-0202(83/3Q)-1 (August 1983) is the source for projections.

Figure 1. Heating Season Demand for Distillate and Residual Oils (October - March)



¹ Projected.

Source: Energy Information Administration, Petroleum Statement Annual (1978—1980), "Petroleum Supply Annual (1981—1982)," "Petroleum Supply Monthly" and "Short-Term Energy Outlook (1983-1984)."

- Crude oil prices: Middle Eastern events in the late 1970's led to supply disturbances that helped push crude oil prices upward to nearly \$40 per barrel by early 1981. Although prices have subsided to an average of about \$29 per barrel, this is still nearly double the level in 1978.
- Conservation: As oil prices escalated, Americans turned to measures such as smaller cars, more insulation, conversions from oil to gas, electricity, or wood, supplemental use of solar energy, and more efficient furnaces and bollers to reduce fuel oil demand. Whether or not such activities have "peaked out," at least for the short term, will be a factor in determining future demand levels.
- The economy: While real Gross National Product (GNP) grew at an average rate of 1.4 percent per year from 1978 through 1982, the ratio of energy consumption to GNP fell by more than 10 percent.
- Weather: The 1982 weather was a temporary factor
 in the reduced petroleum demand. Measured in
 terms of population-weighted heating degree days,
 last winter was about 8 percent warmer than normal. Summer cooling requirements were lower as
 well, further reducing demand for electricity.

As a result of these factors, total demand for petroleum products had fallen to 15.3 MMBD by 1982, almost a 20-percent drop in 4 years. Net Imports of crude oil and petroleum products had also dropped almost barrel-forbarrel with the drop in demand. Net imports in 1982 were only 4.3 MMBD, just over half of the 1978 level. Alaskan crude oil has been a major factor in reducing our dependence on foreign oils. Alaskan production topped 1 MMBD for the first time in 1978 and has averaged more than 1.6 MMBD for the last 3 years.

Data for the first half of 1983 show that both total petroleum demand and net imports have continued to drop, despite recent signs of economic recovery and stable crude oil prices. Petroleum demand averaged less than 15 million barrels per day to midyear, about 4 percent below demand during the first half of 1982. Net imports have again fallen almost barrel-for-barrel with the decrease in consumption, or about 500,000 barrels per day. Net imports of crude oil and petroleum products averaged 3.5 MMBD during the first 6 months of this year. The unusually mild winter of 1982-83 was a major, aithough temporary, factor in this continued decline.

Economic recovery, stable prices, and the return of normal weather patterns are expected to lead to increased petroleum consumption during the second half of 1983. Preliminary data indicate that this trend is already under way.

Net imports of crude oil (including imports for the Strategic Petroleum Reserve) are expected to increase from 2.8 million barrels per day last winter to 4.0 million barrels per day in the coming winter. This is about a 40-percent increase over last year's level, but is well below the peak annual average of 6.6 million barrels per day recorded during 1977. Petroleum products imports are

also expected to increase as a result of reduced primary stock withdrawals. Net imports of crude oil and petroleum products, which averaged almost 3.7 MMBD during the last winter, are expected to average about 5.3 MMBD this winter.

Distillate Fuel Oil Trends

Distillate consumption in 1982 declined for the fourth consecutive year from 1978's peak of 3.4 MMBD. The 1982 demand level was the lowest in more than a decade. Based on preliminary data, demand for distillate fuel oil, measured as product supplied, averaged 2.6 MMBD for the first 8 months of 1983, compared with 2.7 MMBD for the comparable 1982 period.

Both production and stock level trends for distillate have also been downward. Based on preliminary data, production averaged 2.6 MMBD for the first 8 months of 1983, down from the comparable 1982 rate of 2.7 MMBD. Stocks at the end of August were 142 million barrels, about 17 million barrels below the comparable 1982 level. Net imports of distillate fuel oils have virtually ceased since the United States began exporting modest amounts of distillate to Japan, Mexico, and Western Europe in 1982. Primary distillate fuel oil stocks this year were virtually the same as comparable 1982 levels, but considerably lower than the stock levels maintained just 4 or 5 years earlier.

Demand for distillate fuel oil, including home heating oil, diesel fuel, and distillate burned at electric utilities, is projected to increase about 17 percent during the winter of 1983-84 compared to last winter's levels. Demand for diesel fuel is also expected to increase about 50,000 barrels per day, due to increased economic activity and a continuation of the gradual penetration of diesel engines into the stock of motor vehicles.

Retail heating oil prices are expected to fall from an average of \$1.16 per galion last winter to about \$1.07 per galion during the upcoming winter. This represents about a 12-percent decline in real dollars. (This expectation is predicated on a continuation of current world oil prices, in nominal terms, through March 1984).

Supply Availability

The projected Increase In demand is expected to be supplied primarily through Increased refinery throughput. Refinery production of distillate is expected to average almost 3 MMBD during the upcoming winter, compared with 2.5 MMBD last winter.

Although stocks of distillate are low by recent historical standards, even in a coider-than-normal winter, assuming no major disruptions in the international flow of crude oil, demand can be met by a combination of increased production, stock withdrawais, and imports (see Figure 2). Refinery utilization rates during August averaged about 75 percent; thus, refinery capacity is readily available to increase production. Both crude oil

and distillate fuel oil are currently available in International markets, and imports could increase substantially without reaching the levels of the late 1970's.

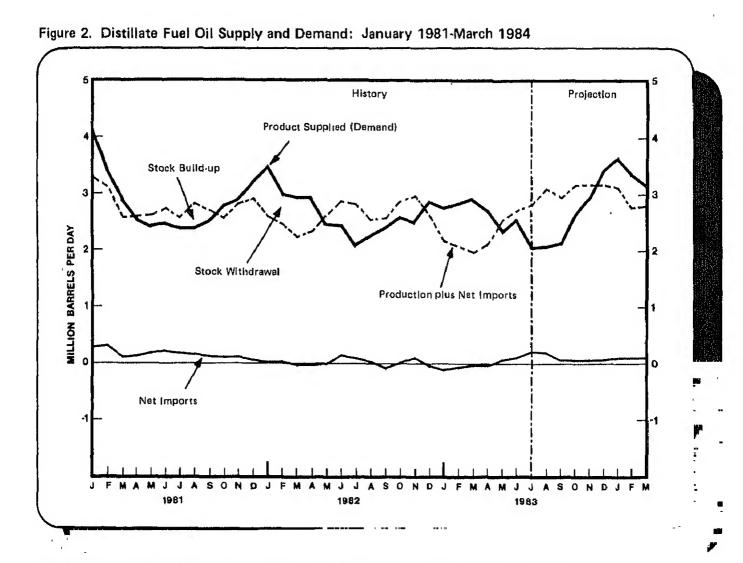
Production was the principal supply component during the five heating seasons from 1978 to 1983; stock withdrawals ranked second. For all of 1982, refinery production was 98 percent of U.S. supply, stock withdrawals accounted for slightly more than 1 percent, and net imports, accounted for less than 1 percent. In 1978, production accounted for 92 percent of supply, stock withdrawal for 3 percent, and net imports accounted for 5 percent of the product supplied.

Primary stocks building generally begins during the summer months, when it is common to divert 15 to 20 percent of the distillate production to this purpose. Stocks build-up continues through the fall in anticipation of the December through February maximum con-

sumption period. This maximum consumption period is also the period when distillate imports usually peak. Maximum refinery production usually takes place during the October through March heating season.

Petroleum Administration for Defense (PAD) District I (East Coast) was the region of entry for 87 percent of U.S. imports of distillate fuel oil in 1982. However, the region received most of its 1982 supply from PAD District III. Because of the high winter levels of demand in PAD District I and its limited ability to produce distillate, stock levels in the region are higher and more variable than in other regions (see Table 1). Usually, when stock levels are at their highest, almost 50 percent of U.S. distillate inventories are located in PAD District I.

Other regions produce higher proportions of their local supply requirements. PAD District II (Midwest) produced 83 percent of its supply requirements in 1982.



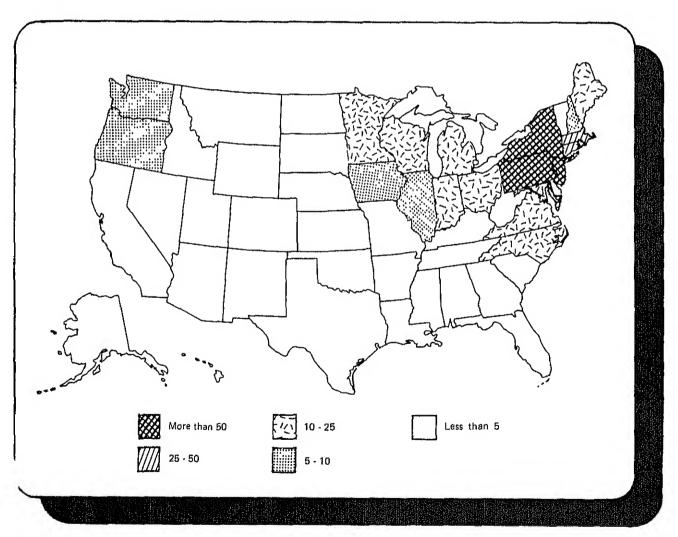
Source: Energy Information Administration, "Petroleum Supply Monthly" and "Short-Term Energy Outlook",

Table 1. Distillate Supply by Region, 1982

	Production	Imports	Stock Change	Net Receipts	Exports	Product Supplied
PADDI	105	30	7	215	1	356
PADD II	239	(8)	3	47	(s)	289
PADDIII	447	`ź	1	- 266	ÌŚ	170
PADDIV	41	(8)	(s)	- 4	(s)	37
ADD V	119	2	`2	7	11	123
U.S. Total	951	34	13	(na)	27	975

(s) Less than 0.5 million barrers
(na) Not applicable.
Source: Energy Information Administration, Petroleum Supply Annual, 1982.

Figure 3. Distillate Fuel Oil Consumption in the Residential Sector, 1982 (Thousand Barrels per Day)



Source: Energy Information Administration, "Petroleum Supply Annual."

PAD District III (the Gulf Coast) produced almost three times its 1982 requirements. PAD Districts IV (Rocky Mountains) and V (West Coast) were self sufficient.

Consumption Trends

Transportation is the largest end use sector for distillate fuel oil. Between 1978 and 1982, use in this sector grew from about a third to over half of the distillate product supplied. Use for electricity generation has declined each year since 1977, and the trend continues downward. Industrial use was depressed throughout 1982 and accounted for only 10 percent of the distillate product supplied, but is expected to improve during 1983. Commercial and residential consumption combined has declined each year since 1977. Of all end use sectors, the residential sector, which accounted for nearly one-fifth of the 1982 consumption, shows the maximum seasonal variation. This variation results primarily from the use of distillate as a heat source during the colder months.

Petroleum Administration for Defense (PAD) District i (East Coast) maintained the largest share, 37 percent of the total U.S. demand for distillate fuels, during 1982. This area is the primary market for distillate heating oil for residential heating (see Figure 3), Last year PAD District; accounted for 75 percent of total U.S. distillate consumed for residential heating. Thirty-eight percent of the region's consumption was used for residential heating. The region's second largest use for distillate was transportation.

PAD District II, the second largest consuming region, accounted for 30 percent of U.S. distillate fuel oil consumed during 1982. Fifty-five percent of the region's consumption was used for transportation purposes, and only 13 percent was used for residential heating.

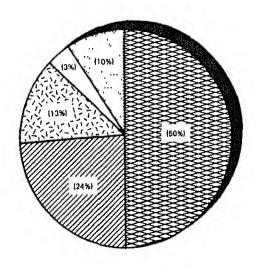
In January 1982, these two regions accounted for 74 percent of total U.S. demand for distillate. In July of 1982, however, they accounted for only 56 percent (see Figure 4). Customarily, PAD District I demand peaks sharply during the winter heating season while PAD District II demand shows less seasonality because of the greater importance of transportation and agricultural uses in that region. Nationwide, seasonal consumption variability is diminishing. In 1978, January consumption was 77 percent greater than July's. The gap has progressively narrowed, and this year January distillate consumption was only 21 percent greater than July's.

Residual Fuel Oil Trends

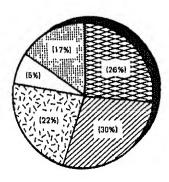
Residual fuel oil consumption peaked in 1977, at 3.1 MMBD. It has dropped each subsequent year, to 1.7 MMBD in 1982, its lowest level since 1965. A major part of this decline is explained by sizable price increases between 1978 and 1981. However, residual fuel oil demand continued to fall in 1982 and the first half of 1983, even as the price of residual fuel oil fell from 1981 levels, in both real and nominal terms. This continued decline in demand is largely attributed to greater reliance

Figure 4. Seasonal Variations in U.S. Distillate Oil Demand

January 1982 3.5 Million Barrels per Day



July 1982 2.1 Million Barrels per Day



PAD District I	PAD District IV
PAD District II	PAD District V
PAD District III	

Source: Energy Information Administration, "Petroleum Supply Monthly."

on coal, natural gas, hydropower, and nuclear facilities for electricity generation, the leading use for residual fuel oil.

This use accounted for 36 percent of all residual fuel oil deliverles in 1982. PAD District I (East Coast) accounted for over half of the total U.S. residual fuel oil delivered to electric utilities in 1982.

Other major consumers were industrial and oil companies, vessels and railroads. The recent weakness in the economy has affected all the uses of residual fuel oil. Although deliveries to most users declined each year between 1977 and 1982, the relative importance of different uses changed little. Vessels bunkering and railroads, the only category with any increase in consumption since 1977, grew from 129 million barrels in 1977 to 153 million barrels in 1982.

Deliveries of residual fuel oil for electric utility use totaled 227 million barrels in 1982, 98 million barrels less than the 1981 amount. Electric utilities accounted for 72 percent of the 1-year drop in total residual fuel oil use. The reductions in utility consumption in two states, California and Fiorida, of 27 and 22,5 million barrels, respectively, accounted for much of this change.

Demand Outlook

Recovery in demand is expected during the second half of 1983. A winter rebound to 1.8 million barrels per day is projected for the winter of 1983-84, a 12-percent increase over last winter's rate. Both economic recovery and normal weather are expected to contribute to the increase; however, an increase in electricity generation and a narrowing of the price differential between natural gas and residual fuel oil to electric utilities could result in a substantial increase in utilities' demand for residual fuel.

Sources of Supply

Residual fuel oil is supplied from production, net imports, and stock withdrawals. Production accounted for only about 62 percent of supply in 1982. Stocks supplied an additional 5 percent. Net imports accounted for 33 percent, the highest percentage for any finished petroleum product but less than the percentages experienced early in the 1970's. About 70 percent of 1982 imports came from Venezuela, Netherlands Antilles, the Virgin Islands, and Algeria. Following the relaxing of export regulations in 1981, exports have risen to record levels, reaching 229,000 barrels per day in the first half of 1983. Four destinations, (the Netherlands, Korea, Bahamas, and Singapore), accounted for about half of these exports. Current stock levels reflect the low demand for residual fuel oil, However, domestic production is projected to increase in response to rising demand and no difficulty is anticipated in meeting winter demand from traditional supply sources.

U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves

As of December 31, 1982, U.S. proved reserves were estimated to be 27.9 billion barrels of crude oil, 7.2 billion barrels of natural gas liquids (including lease condensate), and 202 trillion cubic feet of dry natural gas (excluding gas in underground storage). Crude oil reserves decreased 5.3 percent and natural gas reserves declined 0.1 percent while natural gas liquids reserves increased 2.2 percent (see Table 1).

The net decline of 1.6 billion barrels of crude oil reserves resulted in the lowest level of reserves since 1952. Proved crude oil reserves have decreased each year from the peak level of 39 billion barrels in 1970, when estimates for Prudhoe Bay field in Alaska were included for the first time. The average rate of yearly decline prevalent during the 1970's slowed during 1980 and 1981, but resumed in 1982. Total discoveries added 1.0 billion barrels of reserves during 1982. About three-fifths of the additions were from extensions to reservoirs found in prior years, and the remainder were from new field and new reservoir discoveries.

Proved reserves of dry natural gas decreased about 0.2 trillion cubic feet during 1982. Even so, reserves were about 1 percent above the recent minimum level in

1980. Of the 14.5 trillion cubic feet of gas reserves added during 1982, about three-fifths were from extensions to reservoirs found in prior years, and the remainder were new field and new reservoir discoveries.

Reserves of natural gas liquids increased for the third consecutive year to 7.2 billion barrels. This is the highest level since 1971. Although there were smaller reserve additions from discoveries (0.6 billion barrels) during 1982 than in the previous year, revisions to previous estimates and adjustments contributed to the net increase in reserves.

The estimates of proved reserves are based upon an analysis of data filed by 2,722 operators of oil and gas wells and by 971 operators of natural gas processing plants. The crude oil and natural gas proved reserves estimates are associated with sampling errors of less than 0.9 percent at a 95-percent confidence level.

The full report "U.S. Crude Oli, Natural Gas, and Natural Gas Liquids Reserves, 1982 Annual Report" will be released by the Energy Information Administration in October 1983.

Table 1. Estimated Total U.S. Proved Reserves of Crude Oil,
Natural Gas Liquids, and Natural Gas

	Proved Reserves	Net	Total		Proved Reserves	Percent
· · · · · · · · · · · · · · · · · · ·	Start of Year	Revisions ¹	Discoveries	Production	End of Year	Change
		Crude	Oil (Million B	arrels)		
1977	33,5023	346	794	2,862	31,780	- 5.1
1978	31,780	1,756	827	3,008	31,355	-1.3
1979	31,355	774	636	2,955	29,810	- 4.9
1980	29,810	2,108	862	2,975	29,805	(s)
1981	29,805	1,409	1,161	2,949	29,426	- 1.3
1982	29,426	351	1,031	2,950	27,858	- 5.3
		Natural Gas	Liquids (Mill	lon Barrels)4		
1979	6,7723	15	555	727	6,615	-2.3
1980	6,615	257	587	731	6,728	+ 1.7
1981	6,728	317	764	741	7,068	+ 5.1
1982	7,068	278	596	721	7,221	+ 2.2
		Natural G	as (Billion Cu	bic Feet)6		
1977	213,2783	- 1,625	14,603	18,483	207,413	- 2.8
1978	207,413	1,404	18,021	18,805	208,033	+ 0.3
1979	208,033	- 2,483	14,704	19,257	200,997	- 3.4
1980	200,997	2,250	14,473	18,699	199,021	- 1.0
1981	199,021	4,226	17,220	18,737	201,730	+ 1.4
1982	201,730	2,833	14,455	17,506	201,512	- 0.1

¹Algebraic sum of revision increases, revision decreases, and net of corrections and adjustments

^aProved reserves at end of year equal proved reserves at start of year, plus net revisions (including corrections and adjustments), plus total discoveries, minus production.

³Based on following year data only.

^{&#}x27;including lease condensate.

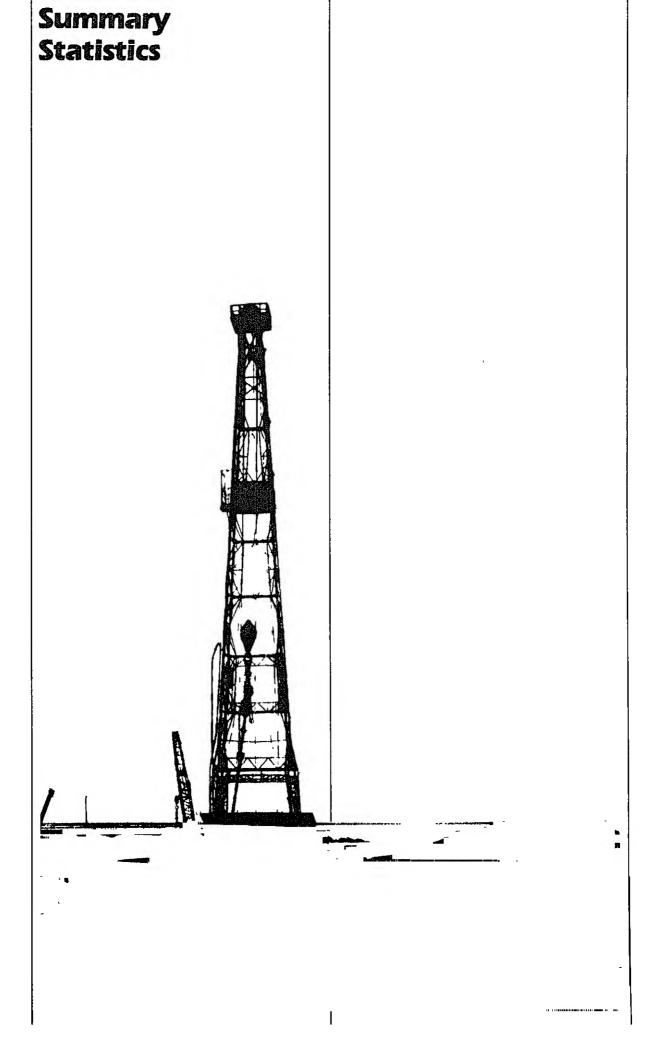
⁵Dry natural gas excluding gas in underground storage.

⁽s) Less than 0.05 percent.

Source: Energy Information Administration, "U.S. Crude Oll, Natural Gas, and Natural Gas Liquids Reserves, 1982 Annual Report", "Advance Summary, August 31, 1983."

Note: Production figures are on oil reservoir and gas reservoir bases to maintain a balance in reserve accounting. These figures differ from those shown for production in the "Petroleum Supply Annual" and other EIA publications.

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		Fiel	d Productio	on	Stock W	Ithdrawal ²		Ending Stocks ³
		Total Domestic ⁴	Crude Oll	Natural Gas Plant Production	Crude Oil ⁵	Petroleum Products	Petroleum Products Supplied	Crude Oil ⁵ and Petroleum Products
				Thousand Barr	els per Day			Millions of Barrels
1973 1974 1975 1976 1977 1978 1979	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	10,975 10,498 10,045 9,774 9,913 10,328 10,179 10,214	9,208 8,774 8,375 8,132 8,245 8,707 8,552 8,597	1,738 1,688 1,633 1,603 1,618 1,567 1,584 1,573	11 -62 -17 -39 -170 -78 -148 -98	-146 -117 -145 -96 -378 172 -25 -42	17,308 16,653 16,322 17,461 18,431 18,847 18,513 17,056	1,008 6 1,074 1,133 1,112 1,312 1,278 1,341 6 1,392
1981	January February March April May June July August September October November December AVERAGE	10,231 10,294 10,272 10,195 10,160 10,287 10,098 10,243 10,281 10,225 10,269 10,220 10,230	8,540 8,604 8,613 8,557 8,501 8,629 8,500 8,583 8,604 8,563 8,586 8,585 8,572	1,652 1,653 1,624 1,599 1,593 1,594 1,548 1,614 1,612 1,598 1,630 1,590 1,609	50 -278 -632 -595 -391 -135 -360 397 -285 -760 -325 -170 -290	1,159 250 224 148 -374 406 91 -999 -341 477 -233 745 130	18,430 16,989 15,907 15,350 15,353 16,095 15,682 15,263 15,655 15,822 15,593 16,596 16,058	1,388 1,389 1,401 1,415 1,438 1,430 1,439 1,457 1,476 1,485 1,501 1,484
1982	January February March April May June July August September October November December AVERAGE	10,128 10,312 10,284 10,188 10,244 10,212 10,229 10,215 10,279 10,299 10,359 10,276 10,252	8,509 8,702 8,667 8,591 8,683 8,646 8,658 8,634 8,701 8,701 8,697 8,598 8,649	1,578 1,563 1,572 1,542 1,518 1,511 1,513 1,524 1,518 1,530 1,609 1,628 1,550	-401 -242 121 -37 29 40 -147 -440 263 -548 -398 128 -136	1,298 1,230 1,047 1,583 -66 -489 -926 -44 -447 -47 -361 688 283	16,124 16,001 15,560 16,046 14,847 14,998 14,821 14,839 15,022 14,859 15,009 15,487 15,296	1,456 1,428 1,392 1,346 1,347 1,360 1,393 1,408 1,414 1,432 1,455 6 1,490
1983	January February March April May June July* August**	10,356 10,298 10,259 10,229 10,231 10,262 10,237 NA NA	8,634 8,660 8,677 8,686 8,682 8,676 8,647 8,653 8,664	1,668 1,585 1,544 1,502 1,483 1,514 1,536 NA	-567 -382 56 -438 68 -163 R 118 -453 -217	865 1,128 1,765 431 -759 -242 R -922 -432 219	14,765 14,772 15,484 14,779 14,250 15,281 R 14,913 15,175 14,928	1,453 1,432 1,375 1,376 1,397 1,409 R 1,434

¹ Includes lease condensate.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

Stocks are totals as of end of period.

natural gas plant production, other hydrocarbons and alcohol.

^{**} of in the Strategic Petroleum Reserve.

B1, and 1983, significant numbers of new respondents were added to bulk urveys as a result of extensive investigation during the previous years.

on the reporting of stocks and stock withdrawals. Using the expanded and of year stocks would be: 1974-1,121, 1980-1,420 and 1982-1,462.

ig 1975, 1981 and 1983 are calculated using new basis stock levels.

of components due to independent rounding.

R = Revised data.

^{1.}

[/] data. See Explanatory Note 8.

⁵⁰ United States and the District of Columbia. the end of this section.

Crude Oil¹ and Petroleum Products Overview (continued)

			Imports			Exports		
		Total	Crude Oll ²	Petroleum Products	Total	Crude Oil	Petroleum Products	Net ³ Imports
				Thousa	nd Barrels p	er Day		
1973 1974 1975 1976 1977 1978 1979	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	6,256 6,112 6,056 7,313 8,807 8,363 8,456 6,909	3,244 3,477 4,105 5,287 6,615 6,356 6,519 5,263	3,012 2,635 1,951 2,026 2,193 2,008 1,937 1,646	231 221 209 223 243 362 472 544	2 3 6 8 50 158 235 287	229 218 204 215 193 204 237 258	6,025 5,892 5,846 7,090 8,565 8,002 7,984 6,365
	January February March April May June July August September October November December AVERAGE	6,827 6,772 6,028 5,668 5,775 5,435 5,816 5,767 6,365 5,959 5,741 5,843 5,996	4,932 4,873 4,521 4,338 4,287 4,061 4,296 4,179 4,740 4,380 4,046 4,137 4,396	1,895 1,899 1,507 1,330 1,489 1,375 1,521 1,528 1,624 1,579 1,695 1,706 1,599	558 569 586 570 595 420 571 644 519 738 701 656 595	339 198 210 198 312 123 257 204 194 226 278 189 228	219 371 376 372 283 297 314 440 325 512 423 467 367	6,270 6,203 5,442 5,098 5,180 5,015 5,245 5,123 5,845 5,221 5,041 6,187 6,401
1982	January February March April May June July August September October November December AVERAGE	5,332 4,807 4,484 4,378 4,811 5,327 5,890 5,244 5,414 5,306 5,744 4,606 5,113	3,693 2,990 2,874 2,849 3,309 3,836 4,248 3,851 3,636 3,670 3,862 3,000 3,488	1,639 1,817 1,610 1,529 1,503 1,491 1,642 1,392 1,778 1,636 1,882 1,605 1,625	829 804 882 786 803 703 741 858 791 932 786 860 815	238 304 321 174 262 94 229 304 184 270 262 193 236	591 499 561 611 542 609 512 554 606 662 524 667 579	4,503 4,003 3,602 3,593 4,008 4,624 5,149 4,386 4,624 4,374 4,958 3,746 4,298
1983	January February March April May June July* August** AVERAGE	4,372 3,691 3,629 4,744 4,898 5,218 R 5,690 5,871 4,776	2,938 2,268 2,232 3,154 3,234 3,502 R 3,868 4,129 3,175	1,434 1,423 1,398 1,590 1,664 1,716 R 1,822 1,741 1,600	973 865 801 809 848 774 571 NA	117 262 174 88 280 144 145 NA	856 603 627 721 568 630 426 NA	3,399 2,825 2,829 3,935 4,049 4,443 5,119 NA NA

 Net Imports = Imports minus Exports,
 Totals may not equal sum of components due to independent rounding.
 NA = Not available. R = Revised data. NA = Not available.

Includes lease condensate.
 Includes crude oil for storage in the Strategic Petroleum Reserve.

^{*} See Explanatory Note 9.1.

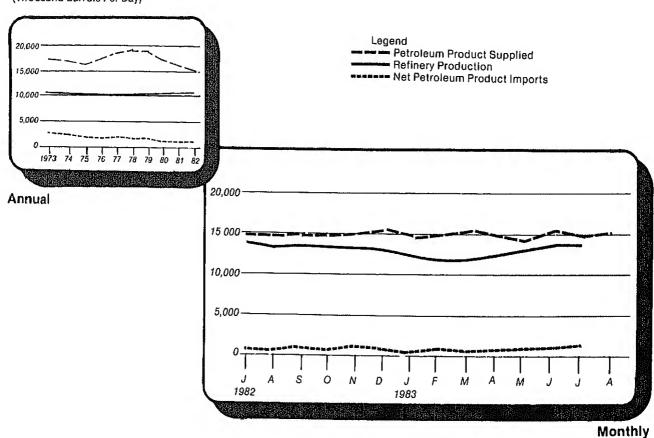
* Italics denote preliminary data. See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia.

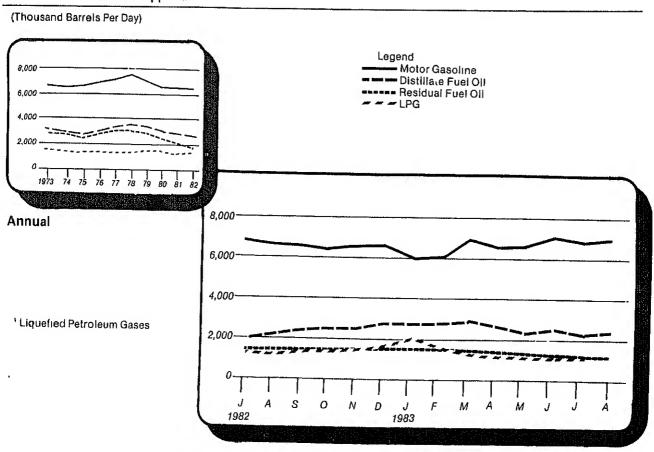
Sources: See "Sources" at the end of this section.







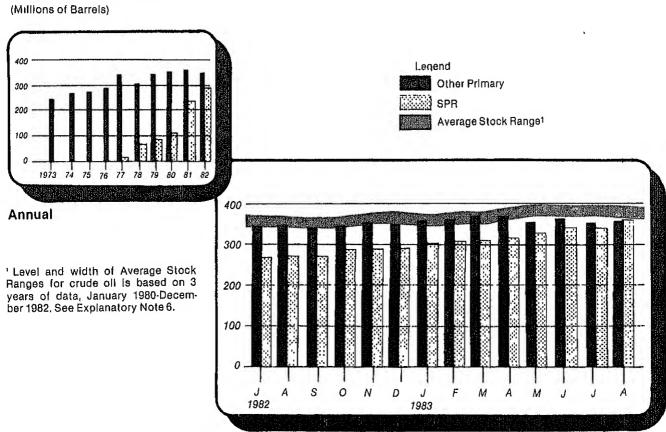
Petroleum Products Supplied



Crude Oil Supply and Disposition

(Thousand Barrels Per Day) Legend Refinery Inputs 15,000 --- Domestic Crude Oil Production - Net Imports 10,000 7,500 5,000 2,500 12,500 Annual 10,000 ' Excludes SPR Imports 7,500 5,000 2,500 1982 1983 Monthly

Crude Oil Ending Stocks



5

					Su	pply			
		Field Pro	oduction		Imports		Sto Withd	ock rawal ²	
		Total Domestic	Alaskan	Total	SPR ³	Other	SPR ³	Other	Unac- counted for Crude Oil
					Thousand B	arrels per Day			·
1973 1974 1975 1976 1977	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	9,208 8,774 8,375 8,132 8,245	198 193 191 173 464	3,244 3,477 4,105 5,287 6,615	21	3,244 3,477 4,105 5,287 6,594	-20	11 -62 -17 -39 -150	3 -25 17 77 -6
1978 1979	AVERAGE AVERAGE	8,707 8,552	1,229	6,356 6,519	162 67	6,195	~163 ~67	84 -81	-57
1980	AVERAGE	8,597	1,401 1,617	5,263	44	6,452 5,219	-45	-52	-11 34
1981	February March April May June July August September October November December AVERAGE January February March	8,540 8,604 8,613 8,557 8,501 8,629 8,500 8,583 8,604 8,563 8,586 8,586 8,572 8,509 8,702 8,667	1,606 1,619 1,618 1,608 1,580 1,632 1,605 1,602 1,607 1,596 1,614 1,623 1,609	4,932 4,873 4,521 4,338 4,287 4,061 4,296 4,179 4,740 4,380 4,046 4,137 4,396 3,693 2,990 2,874	106 80 140 272 386 318 175 257 435 453 271 165 256	4,826 4,793 4,382 4,066 3,901 3,743 4,121 3,922 4,305 3,927 3,774 3,971 4,141 3,523 2,830 2,689	-151 -127 -155 -444 -513 -434 -324 -372 -486 -501 -259 -252 -336 -159 -213 -235	201 -150 -477 -151 122 299 -36 769 201 -259 -66 82 46 -242 -29 357	113 -41 154 51 286 49 147 16 -295 166 279 52 83
	April May June July August September October November December AVERAGE	8,591 8,683 8,646 8,658 8,634 8,701 8,701 8,697 8,598 8,649	1,691 1,707 1,665 1,710 1,697 1,705 1,706 1,676 1,682 1,696	2,849 3,309 3,836 4,248 3,851 3,636 3,670 3,862 3,000 3,488	190 204 105 97 208 139 216 180 124	2,659 3,105 3,732 4,150 3,643 3,497 3,454 3,683 2,877 3,323	-233 -176 -105 -97 -208 -143 -216 -179 -125	196 205 144 -50 -232 406 -332 -219 252 38	231 111 133 -20 189 -210 249 -124 35 71
	January February March April May June July* AVERAGE	8,634 8,660 8,677 8,686 8,682 8,676 8,647 8,653 8,664	1,698 1,725 1,726 1,710 1,710 1,710 1,705 1,712	2,938 2,268 2,232 3,154 3,234 3,502 R 3,868 4,129 3,175	219 197 201 205 289 190 R 274 330 239	2,720 2,071 2,031 2,949 2,945 3,312 R 3,594 3,799 2,936	-219 -197 -184 -197 -293 -188 R -264 -344 -237	-348 -185 240 -241 362 25 R 382 -110	238 423 134 191 148 480 -74 NA

¹ Includes lease condensate.

² A negative number indicates an increase in stocks and a positive number indicates a decrease,

³ Strategic Petroleum Reserve.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

NA = Not available. R = Revised data.

See Explanatory Note 9.2.

Italics denote preliminary data. See Explanatory Note 8.

Note: Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels. Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

		Supply Crude Used Directly ³		Dispo	sition		Ending Stocks ²			
			Crude Losses	Refinery Inputs	Exports	Product Supplied ³	Total Crude Oil	SPR4	Other Primary	
			Thous	and Barrels p	er Day	· 	Mil	lions of Barr	els	
1973	AVERAGE	-19	13	12,431	2	NA	242		242	
1974	AVERAGE	~15	13	12,133	3	NA	⁵ 265		5 265	
1975	AVERAGE	~17	13	12,442	6	NA	271		271	
1976	AVERAGE	-18	15	13,416	8	NA	285		285	
1977	AVERAGE	-14	16	14,602	50	NA	348	7	340	
1978	AVERAGE	-14	16	14,739	158	NA	376	67	, 30 9	
1979	AVERAGE	-13	16	14,648	235	NA	430	91	339	
1980	AVERAGE	-13	15	13,481	287	NA	5 466	108	⁶ 358	
1981	January	-43	6	13,247	339	NA	486	112	374	
	February	-55	3	12,902	198	NA	494	116	378	
	March	57	6	12,383	210	NA	514	121	393	
	April	-59	3	12,091	198	NA	532	134	397	
	May	-59	3	12,309	312	NA	544	150	394	
	June	-58	7	12,415	123	NA	548	163	385	
	July	-58	7	12,261	257	NA	559	173	386	
	August	-58	5	12,908	204	NA	547	185	362	
	September	-61	4	12,505	194	NA	555	199	356	
	October	-63	3	12,057	226	NA	579	215	364	
	November	-64	4	12,240	278	NA	589	223	366	
	December	-63	4	12,349	189	NA	594	230	363	
	AVERAGE	-58	5	12,470	228	NA				
1982	January	-63	3	11,599	238	NA	606	235	371	
	February	-64	2	11,236	304	NA	613	241	372	
	March	-63	5	11,276	321	NA	609	249	361	
	April	-65	3	11,392	174	NA	610	256	355	
	May	-62	3	11,806	262	NA	609	261	348	
	June	-60	7	12,494	94	NA	608	264	344	
	July	-60 -57	3	12,446	229 304	NA NA	613 626	267 274	346 353	
	August September	-57 -56	2 4	11,871 12,146	184	NA NA	619	274	341	
	October	-50 -51	2	11,749	270	NA NA	636	285	351	
	November	-51 -51	1	11,749	262	NA NA	648	290	358	
	December	-53	1	11,724	193	NA NA	5 644	294	5 350	
	AVERAGE	-59	3	11,774	236	NA	- 044	234	· 300	
1983	January	NA	2	11,070	117	54	661	301	361	
	February	NA	3	10,635	262	69	672	306	366	
	March	NA	2	10,854	174	70	670	312	359	
	April	NA	2	11,436	88	68	684	318	366	
	May	NA	1	11,789	280	63	681	327	355	
	June	NA	i	12,287	144	64	686	332	354	
	July*	NA	2	R 12,347	145	65	R 683	341	R 342	
	August**	NA	NA	12.251	NA.	NA	702	351	350	
	AVERAGE	NA	NA	11,593	NA	NA		20,		

¹ Includes lease condensate.

² Stocks are totals as of end of period.

³ Beginning in January 1983, crude oil used directly as fuel is presented as product supplied for crude oil. Prior to January 1983 crude oil used directly was included with crude oil losses in this table and with product supplied for distillate and residual fuel oils.

⁴ Strategic Petroleum Reserve.

⁵ In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years.

The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis) end of year stocks would be: 1974-265, 1980-483 (Total) and 375 (Other primary), and 1982-644 (Total) and 350 (Other Primary).

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

^{&#}x27; See Explanatory Note 9.2.

[&]quot; italics denote preliminary data. See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

			Supply			Disp	Ending Stocks ¹			
		T-4-1		Charle		P	roduct Supplie	ıd	Total	Finished
		Total Produc- tion	Imports ²	Stock With- drawai ²	Exports	Total	Unleaded ⁵	Unleaded	Motor Gasoline ⁴	Motor Gasoline
				Thousand Ba	rrels per Day			Percent of Total	Millions o	of Barrels
1973 1974 1975 1976 1977 1978 1979	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	6,535 6,360 6,520 6,841 7,033 7,169 6,852 6,506	134 204 184 131 217 190 181	9 -24 -28 10 -72 54 2 -66	4 2 2 3 2 1 (s)	6,674 6,537 6,675 6,978 7,177 7,412 7,034 6,579	NA NA NA 1,976 2,521 2,798 3,067	NA NA NA 27.5 34.0 39.8 46.6	209 6 218 235 231 258 238 237 6 261	
1981		6,715 6,308 6,213 6,114 6,122 6,220 6,405 6,611 6,564 6,426 6,586 6,586	138 111 171 186 150 186 151 124 169 147 148 197	-421 -118 -81 303 344 622 268 -95 -70 7 -338 -91 28	(s) (s) (s) (s) (s) 3 2 3 1 11 2	6,431 6,301 6,303 6,602 6,615 7,028 6,823 6,637 6,662 6,578 6,373 6,681 6,588	3,141 3,095 3,097 3,284 3,115 3,419 3,424 3,338 3,257 3,198 3,444 3,264	48.8 49.1 49.1 49.7 47.1 48.6 50.2 50.4 50.1 49.5 49.5	276 284 285 272 259 242 228 233 237 236 248 253	227 230 232 223 213 194 186 189 191 190 201 203
1982	January February March April May June July August September October November December AVERAGE	6,167 5,899 5,994 6,095 6,319 6,754 6,768 6,419 6,527 6,262 6,273 6,542 6,338	128 133 183 185 182 230 225 291 223 185 211 178 197	-316 172 334 650 177 -134 -178 -81 -198 -42 101 -165 25	18 8 44 33 23 14 24 16 22 15 11 7	5,961 6,196 6,466 6,897 6,655 6,835 6,790 6,614 6,531 6,531 6,574 6,549 6,539	3,067 3,210 3,358 3,495 3,415 3,565 3,577 3,526 3,404 3,351 3,451 3,485 3,409	51.5 51.8 51.9 50.7 51.3 52.2 52.7 53.3 52.1 52.4 52.5 53.2 52.1	261 257 247 221 214 219 226 227 234 230 6 235	213 208 198 179 173 177 183 185 191 192 189
1983	January February March April May June July* AUGUST**	6,020 5,848 5,897 6,202 6,386 6,646 R 6,704 <i>6,559</i> 6,287	148 142 205 273 284 265 R 297 238 232	-186 32 765 27 -128 118 R -210 181 75	(8) (6) 23 1 1 22 18 NA NA	5,981 6,022 6,843 6,501 6,540 7,008 R 6,773 <i>6,968</i> 6,585	3,352 3,257 3,620 3,505 3,547 3,796 3,752 NA	56.0 54.1 52.9 53.9 54.2 54.2 55.4 NA	251 251 224 221 225 223 R 231 223	208 207 184 183 187 183 190 184

Stocks are totals as of end of period.

² Beginning in 1981, excludes blending components.

³ A negative number indicates an increase in stocks and a positive number indicates a decrease.

⁴ Includes motor gasoline blending components.

Includes gasohol.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. end of year stocks would be: 1974-225, 1980-263, 1982-244 during 1975, 1981, and 1983 are calculated using new basis stock levels. expanded coverage (new basis), 3 (Finished). Stock withdrawals Using the 1982-244 (Total) and 203 (Finished).

R = Revised data. (a) = Less than 500 barrels per day. NA = Not available.

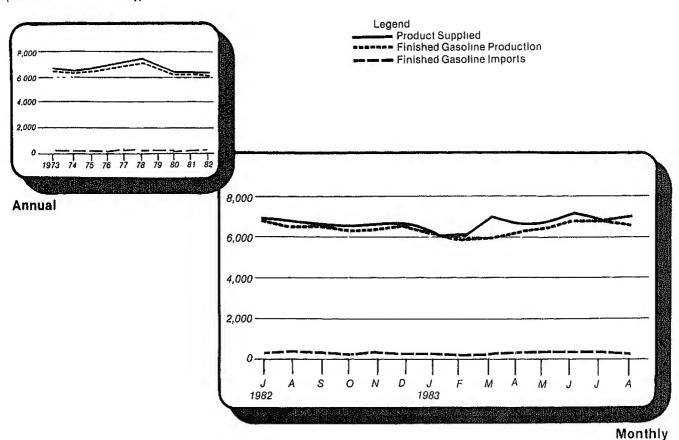
See Explanatory Note 9.3.

[&]quot; Italics denote preliminary data. See Explanatory Note 8.

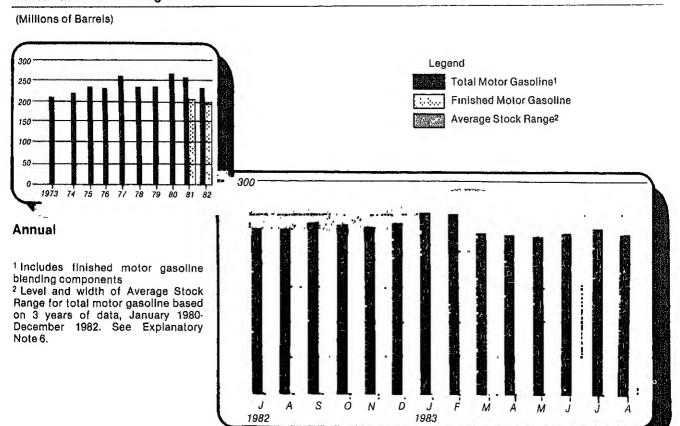
Note: Beginning in January 1981, survey forms were modified .

Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

(Thousand Barrels Per Day)



Motor Gasoline Ending Stocks



			Sı	ipply		Disp	osition	Ending Stocks ¹
		Total Production	Imports	Stock Withdrawai ²	Crude Used Directly ³	Exports	Product Supplied ³	
				Thousand Bar	rels per Day			Millions o Barrels
1973	AVERAGE	2,822	392	-115	2	9	3,092	196
1974	AVERAGE	2,669	289	-9	2	ž	2,948	4 200
1975	AVERAGE	2,654	155	40	2	ī	2,851	209
1976	AVERAGE	2,924	146	62	ī	i	3,133	186
1977	AVERAGE	3,278	250	-176	i	i	3,352	250
1978	AVERAGE	3,167	173	93	i			
1979						3	3,432	216
	AVERAGE	3,153	193	-34	1	3	3,311	229
1980	AVERAGE	2,662	142	64	1	3	2,866	4 205
1981	January	2,989	273	836	11	(s)	4,109	179
	February	2,809	325	246	11	17	3,373	173
	March	2,484	147	264	9	(s)	2,904	164
	April	2,418	116	-9	10	`′ 3	2,532	165
	May	2,454	179	-232	10	(s)	2,411	172
	June	2,501	225	-270	9	(s)	2,464	180
	July	2,395	179	-204	10	(-)	*	186
	August	2,656	174	-450		/e\	2,378	
					. 8	(s)	2,388	200
	September	2,610	129	-235	10	1_	2,513	207
	October	2,485	119	197	9	5	2,803	201
	November	2,716	124	36	11	6	2,880	200
	December	2,856	95	277	11	26	3,212	192
	AVERAGE	2,613	173	38	10	5	2,829	
982	January	2,591	97	876	10	90	3,484	164
	February	2,427	132	605	11	90	3,085	147
	March	2,288	48	682	10	84	2,945	126
	April	2,358	59	612	13	64	2,978	108
	May	2,618	74	-183	10	75	2,444	114
	June	2,729	102	-335	10	55	2,452	124
	July	2,734	125	-789	11	24		148
	August	•	80				2,058	
		2,507		-339	10	40	2,218	159
	September	2,657	61	-85	12	139	2,507	161
	October	2,838	91	-289	8	66	2,581	170
	November	2,860	145	-514	8	24	2,475	186
	December	2,655	109	225	10	143	2,855	4 179
	AVERAGE	2,606	93	35	10	74	2,671	
983	January	2,314	58	561	NA	173	2.760	168
	February	2,136	58	742	. NA	105	2,832	147
	March	1,991	42	926	. NA	59	2,900	119
	April	2,169	73	518	NA	47	2,713	103
	May	2,444	141	-193	NA NA	50		
	. •		175				2,341	109
	June	2,545		-154	NA	40	2,526	114
	July*	R 2,600	R 259	R ~556	NA	55	R 2,248	R 131
	August**	2,597	262	<i>-387</i>	NA	NA	2,426	142
	AVERAGE	2,352	134	175	NA	NA	2,590	

Stocks are totals as of end of period.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

³ Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Explanatory Note 4.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-224, 1980-205, and 1982-186. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

⁽s) = Less than 500 barrels per day. NA = Not available. R = Revised data.

Totals may not equal sum of components due to Independent rounding.

See Explanatory Note 9.4.

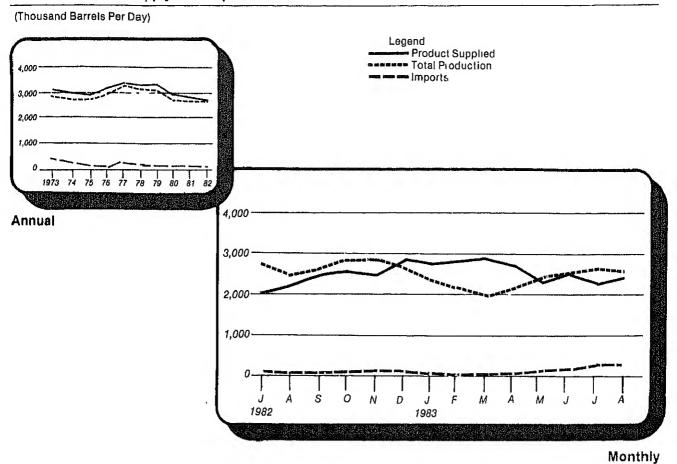
[&]quot;Italics denote preliminary data. See Explanatory Note 8.

Note: Beginning in January 1981, survey forms were modified.

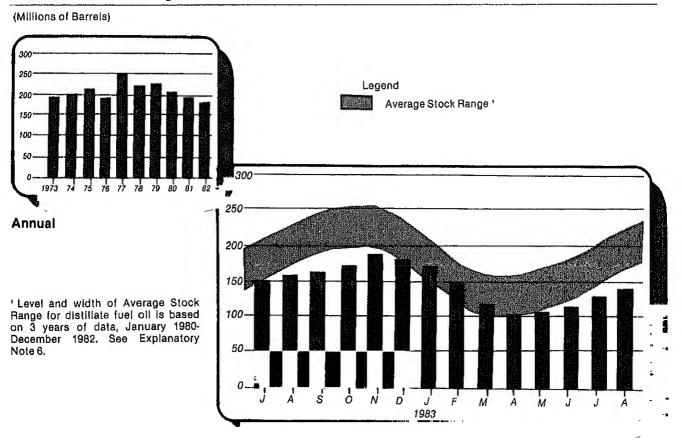
Geographic Coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Distillate Fuel Oil Supply and Disposition



Distillate Fuel Oil Ending Stocks



			Sı	ipply		Disp	Disposition		
		Total Produc- tion	Imports	Stock Withdrawai ²	Crude Used Directly ³	Exports	Product Supplied ³		
				Thousand Bar	rels per Day			Millions of Barrels	
1973	AVERAGE	971	1,853	5	17	23	2,822	63	
1974	AVERAGE	1,070	1,587	-17	13	14	2,639	4 60	
1975	AVERAGE	1,235	1,223	2	15	15	2,462	74	
1976	AVERAGE	1,377	1,413	5	17	12	2,801	72	
1977	AVERAGE	1,754	1,359	-48	13	6	3,071	90	
1978	AVERAGE	1,667	1,355	-1	13	13	3,023	90	
1979	AVERAGE	1,687	1,151	-15	12	9	2,826	96	
1980	AVERAGE	1,580	939	10	12	33	2,508	4 92	
1981	January	1,612	1,015	302	32	65	2,896	82	
'	February	1,565	954	150	44	125	2,588	78	
	March	1,424	699	100	48	145	2,126	75	
	April	1,320	584	66	49	151	1,868	73	
	May	1,223	741	-170	49	25	1,817	78	
	June	1,232	540	291	49	76	2,037	69	
	July	1,174	830	2	48	82	1,971	69	
	August	1,231	819	-179	50	69	1,852	75	
	September	1,292	841	-176	51	126	1,882	80	
	October	1,238	786	8	54	202	1,884	80	
	November	1,227	880	-49	53	203	1,909	81	
	December	1,329	916	110	52	157	2,250	78	
	AVERAGE	1,321	800	37	48	118	2,088	70	
1982	January	1,235	831	301	53	235	2,185	69	
	February	1,186	956	363	53	213	2,344	58	
	March	1,123	912	12	53	197	1,903	58	
	April	1,166	788	150	52	234	1,923	54	
	May	1,128	742	-172	52	191	1,560	59	
	June	1,074	652	-57	50	217	1,501	61	
	July	1,028	657	56	49	239	1,550	59	
	August	965	551	203	47	235	1,531	53	
	September	1,008	872	-306	44	148	1,470	62	
	October	955	783	-57	43	234	1,490	64	
	November	989	837	-94	43	182	1,591	66	
	December	989	747	6	43	186	1,598	4 66	
	AVERAGE	1,070	776	32	48	209	1,716		
1983	January	935	691	243	NA	294	1,574	61	
	February	857	632	270	NA	191	1,568	53	
	March	833	686	220	NA	169	1,569	46	
	April	942	743	-10	NA	310	1,364	47	
	May	930	709	-139	NA	190	1,310	51	
	June	832	676	28	NA	219	1,317	50	
	July*	R 771	R 682	R -58	NA	90	R 1,306	R 52	
	August**	761	627	74	NA	NA	1,261	46	
	AVERAGE	857	681	77	NA	NA	1,407		

Stocks are totals as of end of period.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

³ Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Explanatory Note 4.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-75, 1980-91, and 1982-68. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

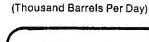
See Explanatory Note 9.4.

^{**} Italics denote preliminary data. See Explanatory Note 8.

Note: Beginning in January 1981, survey forms were modified.

Geographic Coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

Residual Fuel Oil Supply and Disposition



Legend Product Supplied Total Production Imports

Annual

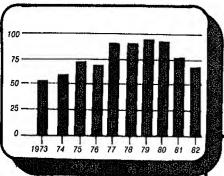
4,000

1.000

4,000 3,000 2,000 1,000 0 D М 1982 1983 Monthly

Residual Fuel Oil Ending Stocks

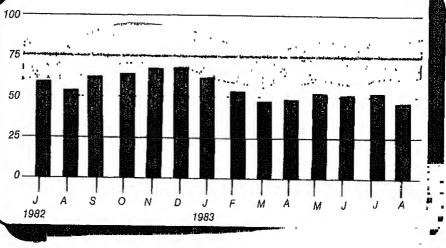
(Millions of Barrels)



Legend

Average Stock Range ¹

¹ Level and width of Average Stock Range for residual fuel oil based on 3 years of data, January 1980-December 1982. See Explanatory Note 6.



			Supply			Disposition				
		Total Production	imports	Stock Withdrawai ²	Refinery Inputs	Exports	Product Supplied			
				Thousand Ba	rrels per Day			Millions of Barrels		
1973	AVERAGE	1,600	132	-35	220	27	1,449	99		
1974	AVERAGE	1,565	123	-38	220	25	1,406	³ 113		
1974		1,505	112	-35 -35	246	26	1,333	125		
	AVERAGE		130	-35 24	260	25 25	1,404	116		
1976	AVERAGE	1,535	161	-55	233	18	1,422	136		
1977	AVERAGE	1,566			239	20	1,422	132		
1978	AVERAGE	1,537	123	12				111		
1979	AVERAGE	1,556	217	70	236	15	1,592			
1980	AVERAGE	1,535	216	-27	233	21	1,469	³ 120		
1091	January	1,617	306	363	352	21	1,913	117		
1301	February	1,593	327	173	303	21	1,769	112		
	March	1,551	260	-4	257	20	1,530	112		
	April	1,586	214	-236	231	26	1,308	119		
		1,587	189	-258	220	19	1,279	127		
	May		206	-208	237	24	1,304	133		
	June	1,567		-258	215	17	1,229	141		
	July	1,507	213			149	1,160	149		
	August	1,592	195	-242	235			151		
	September	1,622	199	-75	287	21	1,438			
	October	1,593	287	72	320	76	1,556	149		
	November	1,571	280	86	383	58	1,495	146		
	December	1,468	255	379	428	50	1,624	135		
	AVERAGE	1,571	244	-18	289	42	1,466			
1982	January	1,565	314	443	391	67	1,863	121		
,,,,,	February	1,466	291	243	327	51	1,621	114		
	March	1,544	223	211	289	74	1,615	108		
	April	1,506	188	98	257	77	1,458	105		
	May	1,565	186	-71	234	43	1,403	107		
	June	1,515	192	-86	262	106	1,254	109		
		1,476	227	-13	253	37	1,399	110		
	July	.,	125	-45	254	61	1,276	111		
	August	1,511		37	274	85	1,463	110		
	September	1,538	247			81	1,463	107		
	October	1,517	194	97	306			107		
	November	1,542	267	175	363	37	1,583			
	December	1,580	258	256	395	56	1,642	3 94		
	AVERAGE	1,528	226	111	300	65	1,499			
1983	January	1,662	240	618	313	118	2,088	84		
1000	February	1,560	305	84	237	76	1,636	81		
		1,500	166	-51	189	127	1,316	83		
	March	•		-51 -107	198	116	1,232	86		
	April	1,531	124					96		
	May	1,545	167	-326	207	84	1,094			
	June	1,593	172	-333	205	59	1,169	106		
	July*	1,571	191	-206	217	55	1,284	112		
	AVERAGE	1,569	194	-46	224	91	1,401			

¹ Stocks are totals as of end of period.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis),

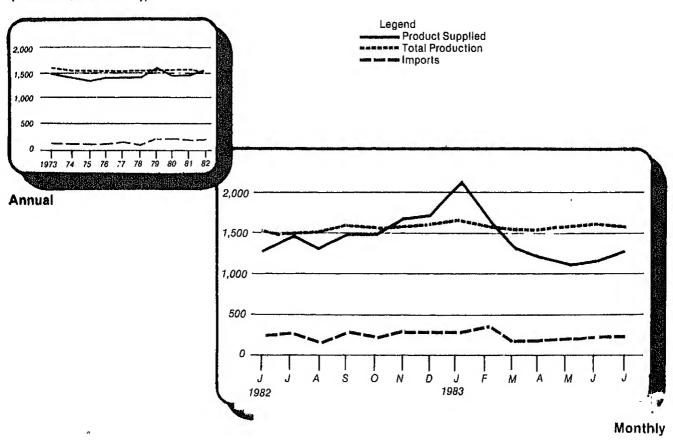
end of year stocks would be; 1974-113, 1980-128, and 1982-103. Stock withdrawais during 1975,

^{1981,} and 1983 are calculated using new basis stock levels. Totals may not equal sum of components due to independent rounding.

See Explanatory Note 9.5.

Geographic coverage: The 50 United States and the District of Columbia, Sources: See "Sources" at the end of this section.

(Thousand Barrels Per Day)



Liquefied Petroleum Gases Ending Stocks

(Millions of Barrels) 200 Legend Average Stock Range1 1973 74 75 76 77 200 Annual 150 'Level and width of Average Stock 100 range for liquefied petroleum gases based on 3 years of data, January 1980-December 1982. See Explanatory Note 6. 50 0 1982 1983

			Supply			Ending Stocks ²		
		Total Produc- tion	Imports	Stock Withdrawai ³	Refinery Inputs	Exports	Products Supplied	
			<u></u>	Thousand Ba	rrels per Day			Millions of Barrels
10.70	AVEDAGE	3,693	502	-9	750	166	3,270	208
1973 1974	AVERAGE AVERAGE	3,558	432	-28	665	174	3,123	4 218
975	AVERAGE	3,424	277	-2	537	160	3,002	219
978	AVERAGE	3,843	206	-5	524	175	3,145	220
	AVERAGE	3,912	205	-27	514	165	3,410	230
977 978	AVERAGE	4,046	166	14	492	167	3,568	225
979	AVERAGE	4,153	195	~37	352	209	3,749	238
980	AVERAGE	3,956	210	-23	311	198	3,634	4 247
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·						
981	January	3,821	162	80	851	132	3,081	296
	February	3,723	182	-200	538	208	2,958	302
	March	3,722	230	-55	642	210	3,043	304
	April	3,711	230	24	733	192	3,040	303
	May	3,892	229	-58	594	238	3,231	305
	June	3,925	218	-29	656	197	3,261	306
	July	3,852	149	284	791	212	3,282	297
	August	3,876	276	-33	676	219	3,225	298
	September	3,718	285	215	883	176	3,159	291
	October	3,503	241	193	710	227	3,000	285
	November	3,579	262	33	784	154	2,935	284
	December	3,543	243	71	805	223	2,829	282
	AVERAGE	3,739	226	46	723	199	3,088	
CRO	January	3,171	269	-7	624	180	2,631	282
	February	3,403	305	-153	663	138	2,755	287
	March	3,466	243	-191	725	161	2,631	293
	April	3,408	309	73	796	204	2,790	290
	May	3,317	318	184	824	210	2,785	285
	June	3,547	315	123	812	216	2,954	281
	July	3,660	408	-1	856	187	3,023	281
	August	3,583	346	217	743	202	3,201	274
	September	3,533	375	105	749	213	3,051	271
	October	3,529	383	244	915	266	2,976	264
	November	3,498	423	-28	837	269	2,786	264
	December	3,324	313	366	885	275	2,842	4 253
	AVERAGE	3,453	334	80	787	211	2,869	
000	lagues:	0.000	007	671	E70	074	0.007	074
ชชป	January	3,222	297	-371	570	271	2,307	271 271
	February	3,270	287	-1 04	680 570	232	2,645	
	March	3,400	298	-94	570	249	2,786	273
	April	3,363	377	3	596	247	2,901	273
	May	3,448	364	26	694	242	2,902	273
	June	3,674	427	99	715	292	3,197	270
	July*	3,703	393	106	757	209	3,237	266
	AVERAGE	3,442	349	-34	654	249	2,855	

Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases.

2 Stocks are totals as of end of period.

³ A negative number indicates an increase in stocks and a positive number indicates a decrease.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-220, 1980-249, and 1982-259. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Totals may not equal such of components due to independent rounding.

See Explanatory Note 9.6,

Geographic Coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

	·				T T	-					
	Algeria	Libya	Saudi Arabia	United Arab Emirates	Indonesia	lran	Nigeria	Venezue-	Other OPEC ²	Total OPEC	Total Arab OPEC ³
					Thousa	nd Barrels	per Day				
1973						•					
AVERAGE 1974	136	164	486	71	213	223	459	1,135	106	2,993	915
AVERAGE 1975	190	4	461	74	300	469	713	979	88	3,280	752
AVERAGE 1976	282	232	715	117	390	280	762	702	122	3,601	1,383
AVERAGE 1977	432	453	1,230	254	539	298	1,025	700	134	5,066	2,424
AVERAGE	559	723	1,380	335	541	535	1,143	690	287	6,193	3,185
AVERAGE	649	654	1,144	385	573	555	919	845	226	5,751	2,963
AVERAGE	636	658	1,356	281	420	304	1,080	690	212	5,637	3,056
1980 AVERAGE	488	554	1,261	172	348	9	857	481	130	4,300	2,551
1981											
January	341	500	1,284	93	424	0	908	549	27	4,127	2,219
February	381	468	1,122	93	406	0	866	463	92	3,891	2,064
March	352	485	1,027	47	328	0	771	360	54	3,425	1,912
April	263	485	1,034	68	307	Ō	812	237	39	3,245	1,867
May	393	443	933	17	297	Ŏ	664	331	124	3,203	1,796
June	356	380	865	60	367	ŏ	528	248	118	2,922	1,703
July	333	251	1,073	80	340	Ŏ	651	466	38	3,233	1,757
August	348	274	1,082	61	377	ŏ	321	523	84	3,070	1,765
September	336	154	1,477	96	371	Ö	323	359	149	3,264	2,063
	242										2,000
October		147	1,342	90	427	0	412	389	172	3,220	1,820
November	210	132	1,270	112	353	0	517	535	56	3,184	1,724
December	176	122	1,045	158	400	0	684	411	132	3,129	1,502
AVERAGE	311	319	1,129	81	366	0	620	406	90	3,323	1,848
1982	054	404									
January	254	161	877	111	289	0	663	376	128	2,859	1,403
February	139	92	693	89	244	0	584	355	102	2,297	1,054
March	91	37	555	155	200	0	522	399	91	2,051	860
April	85	0	511	122	215	0	427	426	85	1,871	740
May	179	0	601	116	236	0	222	422	54	1,830	897
June	115	Ō	593	94	215	72	537	361	110	2,096	820
July	159	0	660	108	327	69	910	356	95	2,685	965
August	181	0	489	133	271	27	574	299	133	2,107	818
September	179	0	432	57	191	21	477	518	69	1,943	677
October	249	7	494	61	242	108	313	504	106	2,084	810
November	247	14	489	47	283	34	479	528	115	2,235	797
December AVERAGE	155 170	0 26	237 552	12 92	265 248	88 35	462 5 1 4	399 412	73 97	1,690 2,146	421 854
1983										•	
January	204	0	282	47	255	43	186	324	43	1,384	533
February	104	Ŏ	214	9	217	0	92	371	28	1,035	326
March	63	0	103	Ő	138	0	121	425	173	1,030	
April	228	Ö	180	(s)	210	0	186	425 508		1,023	183
May	284	Ö	122	12	324			444	125	1,438	409
	300				502	37	352		69	1,645	419
June		0	175	40		38	402	335	146	1,938	515
July	282	0	182	58	464	112	525	431	187	2,240	599
AVERAGE	210	0	179	24	302	33	268	406	111	1,534	427

Excludes petroleum Imported Into the United States Indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.

rrom crude oil produced in OPEC countries.

Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.

Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

Less than 500 barrels.

Totals may not equal sum of components due to independent rounding.

Note: Beginning in October 1977, Strategic Petroleum Reserve Imports are included.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Crude Oll and Petroleum Product Imports from Non-OPEC Sources¹

	Bahamas	Canada	Mexico	Netherlands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico ²	Virgin islands ²	Other	Total
				Th	ousand Ba	arrels per D	ay			
1973 AVERAGE	174	1,325	16	585	255	15	99	329	465	3,263
1974							•		700	
AVERAGE 1975	164	1,070	8	511	251	8	90	391	340	2,832
AVERAGE	152	846	71	332	242	14	90	406	300	2,454
1976 AVERAGE	118	599	87	275	274	31	88	422	353	2,247
1977 AVERAGE	171	517	179	211	289	126	105	466	550	2,614
1978 AVERAGE	160	467	318	229	253	180	94	429	484	2,613
1979										
AVERAGE 1980	147	538	439	231	190	202	92	431	548	2,819
AVERAGE	78	455	533	225	176	176	88	388	491	2,609
1981	0.0									
January	39	543	401 437	198	150	233	89	494	552	2,701
February	84 74	546 472	437	227 227	163 93	271 263	46 45	481 370	626 571	2,881
March										2,603
April	68	412	418	198	139	402	40	365	380	2,423
May	122	365	522	213	105	368	58	344	474	2,573
June	51	353	538	196	124	397	67	262	525	2,513
luly	77	382	384	212	178	553	50	206	541	2,583
August	69	378	489	255	123	592	68	184	539	2,698
September	111	423	708	163	169	528	72	265	661	3,100
October	63	449	669	161	121	351	60	303	562	2,739
Vovember	63	547	628	168	108	253	76	294	421	2,557
December AVERAGE	70 74	501 447	587 522	148 197	125 133	280 375	73 62	367 327	563 534	2,714 2,67 2
	14	447	322	137	190	3/3	02	327	054	2,0/2
1982 January	58	513	425	179	106	346	62	334	452	2,474
February	67	537	476	221	120	181	38	362	508	2,510
March	43	437	503	189	118	294	62	307	480	2,433
April	82	360	476	184	166	247	36	266	690	2,400
May	77	419	766	152	95	516	47	302	607	2,981
June	32	481	797	148	129	557	58	322	708	3,231
July	64	536	783	158	118	433	38	376	698	
August	80	443	853	145	106	433 520	24	317	650	3,204 3,137
Reptember	92	493	897	195	89	631	51	278	746	3,472
October	45	459	682	148	109	666	52	262	801	3,222
November	51	553	860	212	90	623	81	334	706	3,508
December	88	561	689	174	102	438	48	336	480	2,916
AVERAGE	65	482	685	175	112	456	50	316	627	2,968
1983										
January	68	536	849	218	73	315	40	299	588	2,988
ebruary	92	592	722		81	193	50	192	554	2,655
March	86	488	760	187	78	240	43	162	563	2,606
April	167	452	981	216	85	421	20	183	781	3,306
Vlay	135	501	944	153	108	483	42	235	651	3,252
lune	137	576	831	181	120	424	48	252	712	3,281
July	69	633	849	191	103	369	37	364	836	3,450
AVERAGE	107	539	849	189	93	351	40	242	670	3,08

¹ Includes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.

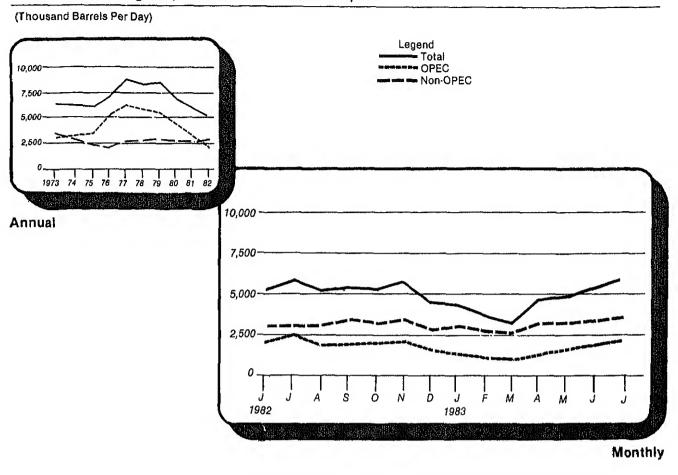
2 U.S. Possessions.

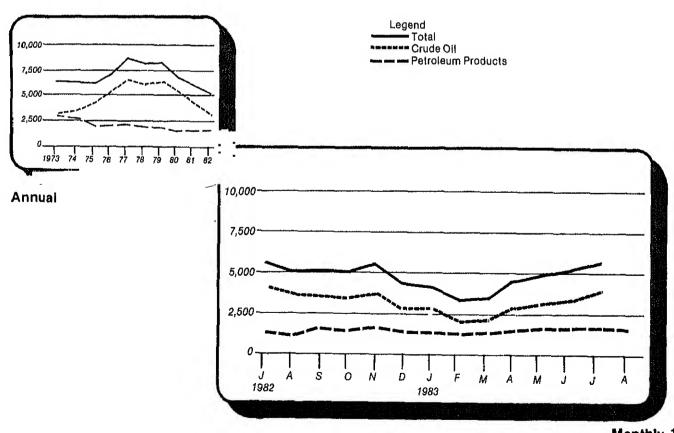
Totals may not equal sum of components due to independent rounding.

Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.





Sources

- 1973 through 1976: Bureau of Mines, U.S. Department of the Interior, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual, Mineral Industry Surveys.
- 2. 1977 through 1980: Energy Information Administration, U.S. Department of Energy, *Monthly Petroleum Statistics Report*, (unleaded gasoline category).
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual, Energy Data Reports.
- 4. January 1981 through December 1982: Energy information Administration, U.S. Department of Energy, *Petroleum Supply Annual*.
- 5. January 1983 through July 1983: Detailed statistics in appropriate issues of the *Petroleum Supply Monthly*. (See Explanatory Notes 9.1 through 9.6).
- August 1983: Estimates based on EIA weekly data (except domestic crude oil production) (see Explanatory Note 1.1).
- 7. January 1983 through August 1983: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies the U.S. Geological Survey. (See Explanatory Note 3).

Detailed Statistics

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Table 1. U.S. Petroleum Balance, July 1983

	Current	Month	Year-t	o-date
	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day
Crude Oil (Including Lease Condensate)				
Field Production (1) Alaska	E 52.849	1,705	E 362,934	1,712
(2) Lower 48 States	E 215,199	6,942	E 1,474,279	6,954
(3) Total U.S	E 268,048	8,647	E 1,837,213	8,666
Net Imports	- 200,040	0,047	- 1,007,210	0,000
(4) Imports (Gross Excluding SPR)	111,422	3,594	595,800	2,810
(5) SPR Imports	8,490	274	47,804	225
(6) Exports	4,494	145	36,460	172
(7) Imports (Net Including SPR)	115,419	3,723	607,144	2,864
(8) SPR Withdrawal (+) or Addition (-)	-8,188	-264	-46,845	-221
(9) Other Stock Withdrawal (+) or Addition (-)	11,855	382	8,050	38
10) Product Supplied and Losses ,	-2,086	-67	-14,044	-66
11) Unaccounted for 1	-2,282	-74	45,805	216
(12) Total Other Sources	-701	-23	-7,034	-33
(13) Crude Input to Refineries	382,766	12,347	2,437,323	11,497
Natural Gas Plant Liquids (NGPL)				
(14) Field Production	47,628	1,536	328,033	1,547
15) Imports 2	826	27	2,537	12
(16) Stock Withdrawal (+) or Addition (-) 2	-563	-18	-3,754	-18
(17) Total NGPL Supply	47,891	1,545	326,816	1,542
Unfinished Oils and Gasoline Blending Components, Total				
(18) Stock Withdrawal (+) or Addition (-)	2,033	66	-909	-4
19) Imports	8,347	269	51,841	245
20) Other Hydrocarbons and Alcohol New Supply (Field Production)	1,665	54	11,397	54
21) Refinery Processing Gain 1	13,570	438	99,541	470
22) Crude Oil Product Supplied	2,015	65	13,686	65
23) Total Other Liquids	27,630	891	175,556	828
(24) Total Production of Products 3	458,287	14,783	2,939,695	13,866
Net Imports of Refined Products 3	12010	4.500		
(25) Imports (Gross)	47,313	1,526	280,469	1,323
(26) Exports	13,217	426	134,269	633
(27) Imports (Net)	34,096	1,100	146,200	690
(28) Total New Supply of Products	492,383	15,883	3,085,895	14,556
(29) Refined Products Stock Withdrawal (+) or Addition (-) 3	-30,079	-970	71,275	336
(30) Total Petroleum Products Supplied for Domestic Use	462,304	14,913	3,157,170	14,892
191) Elniphod Mater Geneline	200 066	6 770	1 204 404	e can
(31) Finished Motor Gasoline	209,966	6,773	1,384,164	6,529
(32) Distillate Fuel Oil	69,693	2,248	554,187	2,614
33) Residual Fuel Oil	40,478	1,306	302,880	1,429
	39,818	1,284	297,105	1,401
35) Other4	100,334 2,015	3,237 65	605,149 13,G86	2,854 65
	462,304	14,913	3,157,171	
37) Total Product Supplied	402,004	14,815	5,107,771	14,892
Ending Stocks, All Oils	244 004		941 004	
(38) Crude Oll and Lease Condensate (Excluding SPR)	341,994		341,994	
39) Strategic Petroleum Reserve (SPR)	340,672		340,672	
40) Unfinished Oils	107,102		107,102	
41) Gasoline Blending Components	41,629		41,629	
(42) Natural Gasoline and Unfractionated Stream ²	15,222		15,222	
(43) Finished Refined Products 3	587,581 1,434,200		587,581 1,434,200	
(44) Total Stocks				

¹ A balancing Item.
2 Includes Isopentane, natural gasoline, unfractionated stream, and plant condensate only.
3 For products included see Explanatory Note 9.7.
4 Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil and liquefied petroleum gases.

E = Estimated.

-- Not Applicable.

Note: Totals may not equal sum of components due to Independent rounding. Sources and estimation procedures: See Explanatory Notes 1, 2 and 9.7.

Table 2. Supply and Disposition of Crude Oil and Petroleum Products, July 1983 (Thousand Barrels)

			Supply					Disposition		
Commodity	Field Produc- tion	Refinery Produc- ton	Imports	Stock With- drawal (+) or Addi- ton (-)	Unac- counted For Crude Oil1	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 268,048	0	119,913	3,667	-2,282	2	382,766	4,494	2,015	682,666
Natural Gas Liquids and LRGs	47.285	11.074	6.761	6 943	c	c	13 668	1 691	42 818	107 721
Natural Gasoline and Isopentane	8,435	0	702	7	0	0	6,096	0	2,997	6,856
Unfractionated Stream	472	0	0	472	0	0	0	Ö	0	7,879
Plant Condensate	759	0	124	-47	0	0	834	0	8	487
Liquefied Petroleum Gases	37,619	11,074	5,935	-6,380	0	0	6,738	1,691	39,818	112,499
Етрале	7,599	266	2,670	602	٥	0	88	83	11,320	5,330
Propane	13,130	8,479	969	-4,927	0	o	102	750	16,527	59,108
Butane	6,144	1,808	1,145	-2,245	0	0	3,650	912	2,290	22,735
Butane-Propane Mortures	150	132	294	-132	0	0	275	0	169	1,388
Ethane-Propane Modures	7,765	0 ;	1,129	501	0	0	0	0	9,495	12,934
sobutane	2,831	2	٥	-279	0	0	2,623	0	\$	11,004
Other Liquids	1,665	0	8,347	2,033	٥	0	16,534	o	-4,489	148,731
Other Hydrocarbons and Alcohol	1,665	0	0	မှ	0	0	1,629	0	0	296
Unfinished Oils	0	0	7,438	3,016	0	0	12,977	0	-2,523	107,102
Motor Gasoline Blending Components	0	0	606	-903	0	0	1,984	0	-1,978	40,822
Aviation Gasoline Blending Components	0	0	0	4	0	0	-56	0	12	511
Finished Petraleum Products	343	415.464	41.378	-23.699	c	c	c	11.526	421.961	475.082
Finished Motor Gasoline	8	207,775	9.203	-6,496	0	0	0	568	209,966	189,813
Finished Leaded Motor Gasoline	8	92,540	4,180	-2,517	0	0	0	268	93,669	97,919
Finished Unleaded Motor Gasoline	19	115,235	5,023	-3,979	0	0	0	0	116,298	91,894
Finished Aviation Gasoline	104	835	•	20	0	0	0	0	066	2,428
Naphtha-Type Jet Fuel	0	6,631	0	-927	0	0	0	(s)	5,704	7,833
Kerosene-Type Jet Fuel	0	25,256	999	516	0	0	0	37	26,402	33,858
Kerosene	N	2,495	539	476	0	0	0	Ø	2,558	8,524
Distillate Fuel Oil	,	80,603	8,016	-17,232	0	0	0	1,695	69,693	131,037
Residual Fuel Oil	0	23,902	21,154	-1,783	0	0	0	2,795	40,478	51,868
Naphtha < 400 Deg. for Petro. Feed. Use	0	4,579	403	-35/	0	0	٥	146	4,479	2,226
Other Oils > 400 Deg. for Petro. Feed. Use	0	8,291	<u></u>	-135	0	0	0	357	7,800	2,232
Special Naphthas	126	1,871	445	-207	0	0	0	8	2,195	3,454
Lubricants	0	4,571	251	112	0	0	0	277	4,358	11,622
Waxes	0	532	9	-72	٥	0	0	27	440	887
Petroleum Coke	0	13,246	0	1,332	0	0	0	5,253	9,325	4,817
Asphalt and Road Oil	0	15,111	397	2,158	0	0	0	ιO	12,661	22,913
Sul Gas	0	18,017	0	0	0	0	0	0	18,017	o
Miscellaneous Products	25	1,749	292	-182	0	0	0	75	1,894	1,570
Total	317.341	426 538	176.399	-24.942	-2.282	7	412.968	17 711	462.304	1.434 200
						•				

Unaccounted for crude oil is a balancing item.

(s) Less than 500 barrels.

E = Estimated.

Note: Total may not equal sum of components due to independent rounding.

Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 3. Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products, January - July 1983 (Thousand Barrels)

Crude Oil (Including lease condensate) E 1,837,213 Refinery Imports Natural Gas Liquids and LRGs 325,534 66,775 43,625 Natural Gascoine and Isopentane 325,534 66,775 43,625 Unfractionated Stream 325,534 66,775 43,625 Unfractionated Stream 325,738 66,775 43,625 Propare 324 66,775 43,625 Butane Propare Mixtures 324 66,775 41,083 Ethane-Propare Mixtures 33,44 66,775 41,083 Butane Propare Mixtures 33,44 61,086 33,44 Butane-Propare Mixtures 33,704 56,772 9,691 Butane-Propare Mixtures 33,704 56,772 9,696 Chreat Propare Mixtures 33,704 56,772 9,696 Butane-Propare Mixtures 33,704 56,772 9,696 Christopa Control 45,772 1,138 1,138 Christopa Conforments 45,772 45,740 1,158 Finished Motor Gasoline 45,772		Stock With-	Unac					
E 1,837,213 0 6 6 775 5 1,825 0 7,920 0 7,909 0 0 7,909 0 0 0 6 6 7,75 8 6 6,775 6 6,775 6 6,775 6 6,775 6 6,096 1,196 6 6,096 1,196 6 6,096 1,196 6 6,096 1,196 6 6,096 1,196 6 6,096 1,198 1,1		drawal (+) or Addi- tion (-)	counted For Crude Oil ¹	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
255,534 66,775 6,7	0 643,604	-38,795	45,805	358	2,437,323	36,460	13,686	682,666
51,825 0 4,009 0 3,342 0 6,775 0 4,009 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-13,535	0	0	91,936	19,270	311.194	127.721
3,942		698-	0	0	37,819	0	14,075	6,856
3,942 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	-3,840	0	٥	169	0	0	7,879
265,758 66,775 53,261 3,118 53,261 3,118 6,096 1,196 6,096 1,196 6,096 1,196 6,096 1,196 6,096 1,196 6,096 1,197 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		955	0	0	6,482	0	14	487
11397 0 0 0 0 0 0 0 0 0		-9,781	0	0	47,466	19,270	297,105	112,499
93.704 56,722 43,111 6,096 1,196 655 54,670 1 11,397 0 11,397 0 11,397 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		641	0	0	563	စ္တ	66,753	5,330
1,196 655 5,4670 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-871	0	0	854	11,872	146,520	59,108
1,195 002		-6,053	0 (0 (27,757	7,368	17,218	22,735
11,397 0 0 0 0 0 0 0 0 0		187	-	5 C	355,1	5 6	4,986	1,388
11,397 0 0 0 0 0 0 0 0 0		500'I-	> (- (0 0	> (pon'no	12,834
11,397 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	-2,583	o	5	16,756	O	961	11,004
ments 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 51,842	606-	0	0	94,246	0	-31,916	148,731
nents 0 0 ponents 2,500 2,656,271 2,500 se	0	5	0	0	11,412	0		296
nents 0 0 ponents 2,500 2,656,271 2,500 521 1,323,874 356 601,601 life 722,273 486 4,577 life 4,577 486 4,577 life 22,273 1 life 170,311 22 21,828 life 491,072 1 life 22,285 1 life 29,285 1 life 1,489 0 life 29,595 0 life 3,204 0 life 11,489 0 life 11,606 11,606	•	-1,825	0	0	58,602	0	-15,090	107,102
2,506 2,656,271 2 2,506 2,656,271 2 2,51 1,323,874 86 4,577 86 4,577 86 4,577 87 486 4,577 88 4,577 88 4,577 88 4,577 88 4,577 88 4,577 88 4,577 88 4,577 88 4,577 88 4,577 88 4,577 88 4,577 88 4,577 88 4,577 88 4,770 88 4,720 88 4,720 88 5,278 88 5,284 88 5,384	0 6,504	920	0	Q	23,702	0	-16,278	40,822
2,500 2,656,271 5 5 1,323,874	0	-19	0	0	230	0	-548	511
22 21,828 24,577 486 4,577 6 45,112 1 170,311 1 170,311 1 170,311 1 170,311 1 170,311 1 170,311 1 170,311 1 170,311 2 2,1828 2 2,1828 1 10,491,072 0 184,720 0 56,278 665 11,489 0 56,278 0 56,278 0 56,278 0 56,278 0 56,278 0 56,278 0 56,278 0 56,278 0 56,278 0 73,625 0 73,625 11,606	239,380	81,056	0	0	O	114,939	2,864,207	475,082
356 601,601 165 722,273 486 4,577 0 45,112 1 170,311 22 21,828 10 491,072 10 491,072 10 491,072 10 491,072 10 29,285 0 29,285 0 56,278 0 56,278 0 56,278 0 56,278 0 29,595 0 3,204 0 3,204 0 73,625 0 73,625 0 113,331 0 113,331		12,724	0	0	0	2,043	1,384,164	189,813
165 722,273 486 4,577 0 45,112 0 45,112 0 170,311		4,236	0	0	0	2,043	631,555	97,919
486 4,577 0 45,112 1 170,311 22 21,828 10 491,072 0 184,720 1 0 0 29,285 0 56,278 0 29,585 0 3,204 0 3,204 0 73,625 0 11,331 0 11,606 11,606	7,	8,488	0	0	0	0	752,610	91,894
1 170,311 22 21,828 10 491,072 10 184,720 10 184,720 10 29,285 10 29,536 10 29,535 10 3,204 10 3,204 10 3,525 11,606 11,606	210	-114	0	0	0	0	5,159	2,428
22 21,828 10 491,072 10 491,072 10 184,720 10 29,285 10 56,278 10 29,595 10 29,595 10 29,595 10 13,331 10 73,625 11,606 11,606		-644	0	0	0	2	44,267	7,833
22 21,828 24,720 24,072 25 21,828 26,278 27,282 27,828 27,		-1,857	0	0	0	83 ₇	172,929	33,858
10 491,072 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2,268	0	σ.	0	99	25,449	8,524
		54,542	0	0	0	15,990	554,187	131,037
	7	16,361	0	0	0	44,258	302,880	51,868
		-259	o	0	0	843	30,794	2,226
665 11,489 0 29,595 0 3,204 0 86,364 0 73,625 0 113,331 795 11,606		-25	0	0	0	3,003	53,402	2,232
0 29,595 1, 0 3,204 0 86,364 1,3331 795 11,606 3,		8	0	0	0	470	15,543	3,454
0 3,204 0 86,364 0 73,625 1, 0 113,331 795 11,606 3,	-	1,559	0	0	0	3,384	29,357	11,622
0 86,364 0 73,625 0 113,331 795 11,606	155	-101	0	0	0	141	3,117	887
0 73,625 0 113,331 795 11,606	364 0	1,904	0	Φ	0	43,545	44,723	4,817
795 11,606	1,317	-5,644	0	0	0	225	69,073	22,913
795 11,606	331 0	0	0	0	0	0	113,331	0
	3,276	349	0	0	0	194	15,831	1,570
Total 2,723,046 978,451	978,451	27,817	45,805	358	2,623,505	170,729	3,157,171	1.434.200

Unaccounted for crude oil is a balancing item.

(s) Less than 500 barrels.

É = Estimated.

Note: Total may not equal sum of components due to independent rounding.

Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 4. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 1983 (Thousand Barrels per Day)

			Supply						
							Uisposition	Stron	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawaf (+) or Addi-	Unac- counted For Crude	Crude	Refinery	Exports	Products Supplied
Crude Oil (including lease condensate)	E 8,647	٥	3,868	118	-74	2	12.347	145	r.
Constant Con								1	3
Natural Gasoling and Industrial	1,525	357	218	-224	0	0	441	55	1.381
Indian dayonre and isopeniane	272	0	ន	7	0	0	197		70
Contractionaled Stream	15	0	0	-15	0	C	·	• •	ñ
Flant Condensate	24	0	4	٩	0	· c	. 6		5
Liquefied Petroleum Gases	1,214	357	191	90%	• •	o c	2.5	<u>ا</u> د	(e)
Ethane	245	œ.	8	9		> (217	ያ	1,284
Propane	424	27.6	8 8	D (> •	5	m	_	365
;	170	7 5	3.8	601-	0	0	ო	24	233
white	9 1	Š,	3,	-72	0	0	118	8	74
:	ָרָר מַר	4	o	4	0	0	6	0	S
freships of	250	0	98	19	0	0	0	0	306
MANAGEMENT	9	ო	0	ଦ	0	0	85	0	-
Contraction of the contraction o	i								•
Other Lighten Line and Alexander	ž,	0	569	99	0	0	533	0	-145
Other Hydrocarbons and Alcohol	54	0	0	7	0	0	23		?
Unnnished Oils	0	0	240	97	0	c	410		9
Motor Gasoline Blending Components	0	0	53	-53	0		2	•	ē 4
Aviation Gasoline Blending Components	0	0	0	17		0 0	? ?		ŧ ē
			•	•	,	•	7	>	à
Finished Petroleum Products	=	13,402	1,335	-764	0	0	0	37.5	12612
Finished Motor Gasoline	8	6,702	297	-210	0	0	· c	4 4	577.3
Finished Leaded Motor Gasoline	-	2,985	135	18-	0		· c	2 4	200
Finished Unleaded Motor Gasoline	-	3.717	162	-12B	· c	· c	• •	2 6	3,026
Finished Aviation Gasoline	က	27	(s)	} ^	o c	o c	> 0	> C	3,752
Naphtha-Type Jet Fuel	c	21.6	;	, 6	•		> 0	>	35
Kerosene-Type Jet Fuel	· c	2,4	9 66	\$ \$	0 0	5 6	> 0	<u>a</u>	184
Kerosene		9 8	1 1	- 14	0	> (> (- -	825
Distillate Fuel Oil	<u> </u>	26.00	- 0	ָה י	5 (Þ	0	(S)	88
Besideal First Oil		3 7	667	000	> (-	>	S.	2,248
Naphtha / 400 Det for Detro Esset Ties	•		299	က ဂို	0	0	0	8	1,306
Other Oile / 400 Dea for Date Cod Dea	> 0	9 19	2	-12	0	φ	0	(C)	144
Canal Marketa	0	267	<u>©</u>	4	٥	0	0	12	252
	4	8	14	<u>-</u> -	0	0	0	-	71
Luoncants	0	147	80	4	0	0	0	19	141
Waxes	0	17	(s)	4	0	0	0	,-	4
Petroleum Coke	0	427	0	53	C	•		160	
Asphalt and Road Oil	0	487	<u> </u>	5 5) C	• •		8	5 6
Still Gas	· ~	, E	2 0	2 0		> (> (6	0/0
Miscellaneous Products	· (<u> </u>	> (> (9	0	0	0	581
THE COURT OF THE C	V	Š	01	φ	0	0	0	τ	61
Total	10 227	12 750	900	400	i	,		į	
			2000	200-	4	7	13,322	571	14,913
A Management of framework - 1 - 1 - 1 - 1 - 1									

1 Unaccounted for crude oil is a balancing item.
(s) Less than 500 barrels.

E = Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 5. Year-to-Date Dally Average Supply and Disposition of Crude Oil and Petroleum Products, January - July 1983 (Thousand Barrels per Day)

Refinery Production 115 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	194 49 48 437	Stock With- drawal (+) or Loadi- Loadi- 183 -183 -183 -183 -183 -183 -183 -183	Unac- counted For Coude Oil1 216 0 0 0 0	Crude Losses	Refinery E	Exports	Products Supplied
315 0 0 0 215 268 298 299 299	3,036 206 4 0 0 194 49 48 48 48 48 48 48 48 48 48 48 48 48 48	26 24 4 50 26 04 4 60 00 00 00 00 00 00 00 00 00 00 00 00	<u>0</u> 000000	N 0			
315 0 0 115 268 29 29 29	206 4 4 194 49 43 43 77	\$48°08048°085°	0 00000	o	11,497	172	65
2,268 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0 0 194 43 43 43 43 43 43 43 43 43 43 43 43 43	<u>4 ස</u> ጥ å ω 4 భ ພ ል ል ል ' . 4	000000	,	434	6	1,468
315 315 268 29 29 3	194 49 46 46 43 43 77	i n	0000	0 0	178	00	99 0
315 268 29 3 3 0	194 49 43 43 37	\$ c. 4 \$ c. & 5 . \	000	٥٥	31	00) (§)
268 29 29 29 29 29 29 29 29 29 29 29 29 29	44 43 34 45 45 45 45 45 45 45 45 45 45 45 45 45	2 4 8 6 8 8 5 7 4	00	0 (224	01	1,401
26 0 0 0 ←	84 t 8	8 ² 2. 4. 5. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		00	w 4	(s) 56	315 691
m o ⊷	19 37	ლ გ <u>ქ</u> , 7	0	0	131	35	<u>8</u>
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> 0	4 2	a	۰ ۵	Φ.	276	0	-71
-	(S)	(s)	- c	o c	112	0 0	7/-
•	:	:	,	,	,	•	?
12,530	1,129	382	0	٥	0	542	13,510
6,245	232	8	۰ ۵	0 (0	<u></u>	6,529
2,838 9,407	<u> </u>	3 5	0 0	0 6	0 0	<u>0</u> (2,979
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803	24	op ;	ο (0 (0	က	816
, 103 2316	118	11	> C	> C	50	(s)	120
871	689	1	0	0	0	508	1.429
138	12		0	0	0	4	145
265	- :	(S)	0	0	0	14	252
4 5	م ۾	(S)	0	0 (0 0	en i	73
<u> </u>	٠.	٠ و	> <	> c	-	2 1	25.
407	0	6	0	0	00	205	211
347	9	-27	0	0	0	-	326
535	0 ¥	00	00	٥٥	00	0 1	535
2	2	N	5	•	5	-	ű
12,845	4,615	131	216	8	12,375	805	14,892
	2,530 6,245 6,245 6,245 3,407 2,2 2,13 803 103 2,316 87 103 2,316 103 140 140 140 140 15 407 347 55 55		(s)	(s) (s) 4 (s) 4 (s) 4 1,129 382 232 60 129 20 102 40 1 -1 0 -3 24 -9 7 7 116 689 77 116 257 689 77 12 (s) 7 1 (s) 9 6 -27 0 0 15 (s) 7 16 (s) 7 17 (s) 9 18 (s) 7 18 (s) 7 19 (s) 9 19 (s) 9 15 (s) 16 (s) 17 16 (s) 17 17 (s) 18 (214 (9) (9) (1) (2) (4) (4) (4) (4) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	214	214

¹ Unaccounted for crude oil is a balancing item
(s) Less than 500 barrels.
E = Estimated.
Note: Total may not equal sum of components due to independent rounding Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 6. PAD District I, Supply and Disposition of Crude Oil and Petroleum Products, July 1983 (Thousand Barrels)

			ng.	Supply				JasiG	Disposition		
Commodity	Field Produc- tron	Refinery Produc- tron	Imports	Stock With- drawal (+) or Addi- tton (-)	Unac- counted For Crude Out	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 2,545	0	27,580	-169	-115	4,906	**	34,746	o	Ö	16,253
Natural Gas Liquids and LRGs	836	1,107	568	-366	۵	1,660	0	83	32	3,709	5,285
Liquefied Petroleum Gases	706 130	1,107	341	-329 -37	00	1,660	00	32 28 28	တ္က ဝ	3,303 406	5,199 86
Other Liquids	116	0	2.853	209	0	σ	0	3,732	0	-147	17,264
Other Hydrocarbons and Alcohol	116	0	0	69	٥	٥	0	57	0	0	92
Unfinished Oils	0	0	2,572	864	0	თ	0	3,365	0	80	12,456
Motor Gasoline Blending Components	0	0	281	-198	0	0	0	310	0	-227	4,713
Aviation Gasoline Blending Components		0	0	0	0	۵	0	0	0	0	0
Finished Petroleum Products	4	38,990	34,546	-15,335	0	73,297	0	0	512	131,031	160,253
Finished Motor Gasoline	44	18,153	7,749	-2,878	0	47,287	0	٥	ო	70,352	59,643
ine	53	6,930	3,317	-1,373	0	17,944	0	0	ო	26,840	31,355
Finished Unleaded Motor Gasoline	19	11,223	4,432	-1,505	0	29,343	0	0	0	43,512	28,288
Finished Awation Gasoline	0	თ	-	96	0	194	0	٥	۰,	305	206
Naphtha-Type Jet Fuel	0	745	0	-241	0	569	0	0	0	1,073	677
Kerosene-Type Jet Fuel	0	1,113	407	-929	0	8,716	0	0	0	9,307	9,236
Kerosene	0	-138	299	-115	0	194	0	0	•	239	3,676
Distillate Fuel Oil	ø	8,931	7,018	-9,774	0	12,654	0	0	62	18,750	50,905
Residual Fuel Oil	0	2,782	18,193	-1,345	0	2,106	0	0	<u>(S</u>)	21,736	25,313
Naphina and Outer Ous for Perochem	ć	070	*	ų	c	45	c	c	34	350	4R *
	> 0	? •	1 6	2 5	•	2.7		o C	e e	200	844
Special rapillias	0	* t	200	2 6	, (550	· c	· C	153	1489	3179
	• •	3 8	3 °	e a		^		c	4	100	156
Details Only	0 0	1 245	N C	2 %	o c	. c	0	c	221	1.078	683
Acabate and Dood Oil	0 6	171 5	385	5 9	· C	444	0	0	,-	3.996	5.043
Chill Case	· c	1 738	3	o c	0	C	0	0	0	1,738	0
Miscellaneous Products	0	133	263	-52	0	223	0	0	12	555	344
i stori	3.541	40.097	65.547	-15.263	-115	79.872	₩.	38,541	544	134,593	199,055

Unaccounted for crude oil is a balancing item
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Includes natural gasoline, isopentane, unfractionated se = Estimated
 Note. Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures. See Explanatory Notes on Data Collection and Estimation.

Table 7. PAD District II, Supply and Disposition of Crude Oil and Petroleum Products, July 1983 (Thousand Barrels)

			Σīζ	Supply				Disp	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 32,159	0	16,409	396	37,830	1,931	12	88,366	346	0	78,034
Natural Gas Liquids and LRGs	8,911 8,068 843	2,306 2,306 0	4,753 4,753 0	-1,645 -1,695 50	000	2,995 1,631 1,364	•00	4,068 2,403 1,665	742 742 0	12,511 11,919 592	41,219 37,439 3,780
Other Hauids	376	٥	802	1.445	c	1.230	0	2.810	c	1.043	25 177
Other Hydrocarbons and Alcohol .	376	0	0	S	0	0	0	339	٥٥	0	94
Unfinished Oils	0	0	229	229	0	6	Ó	619	0	726	17,351
Motor Gasoline Blending Components	0	0	125	736	0	1,239	0	1,783	0	317	7,523
Awation Gasoline Blending Components	0	0	0	on .	0	0	0	on.	0	٥.	509
Finished Petroleum Products	900	96,623	1,259	4,105	00	21,573	00	00	280	115,076	121,893
Cinished Loaded Motor Corolling	o c	97,03	50	200,1	o c	7.054	9	> 0	107	00,220	240,70
Figure Leaded Motor Gasoline	o c	200,12	- 4	217	> ¢	77.7	> c	-	ē °	33,700	30,004
Finished Aviation Gasoline	0	132	- 0	-145	0	330	0	0	0	217	720
Naphtha-Type Jet Fuel	0	1,257	0	-683	0	221	0	o	O	795	2,322
Kerosene-Type Jet Fuel	0	3,480	o	222	0	1,293	0	0	0	5,330	7,891
Kerosene	0	181	0	47	0	38	0	0	(s)	566	1,745
Distillate Fuel Oil	0	18,906	395	-4,076	0	6,260	0	0	0	21,485	33,639
Residual Fuel Oil	0	1,952	545	ማ	0	-312	0	0	0	2,182	3,744
Foodstock	c	672	37	œ	c	አ	-	c	3	670	250
Special Naphthas	0	461	4	117	0	130	0	0	ţ "	772	611
Lubricants	0	744	00	-191	0	373	0	0	<u> 1</u>	919	2.246
Waxes	0	45	61	ማ	0	0	0	0	•	43	92
Petroleum Coke	0	3,202	0	386	0	0	0	0	9	3,497	1,212
ਨ	0	4,439	5	1,508	0	471	0	0	R	6,421	10,199
Still Gas		3,938	٥	0	0	0	٥	0	0	3,938	0
Miscellaneous Products	တ	175	7	22	0	-151	0	0	(2)	17	175
Total	41,452	98,929	23,223	-3,909	37,830	27,729	12	95,244	1,368	128,629	266,323

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 E. Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation

Table 8. PAD District III, Supply and Disposition of Crude Oil and Petroleum Products, July 1983 (Thousand Barrels)

			ing	Supply				Disp	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tron	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oli (including fease condensate)	E 128,371	0	64,658	-5,404	-28,482	15,347	6	174,459	0	22	494,210
Natural Gas Liquids and LRGs	34,252	5,907	294	-4,567	0	-3,447	0	8,398	792	23,249	77,669
Uquefied Petroleum Gases	27,469 6,783	5,907 0	294	4,004 -563	00	-3,095 -352	00	3,550 4,848	792 0	22,229 1,020	66,959 10,710
Other Liquide	591	c	3.503	-543	c	-1.239	,	9.778	C	-7.466	68,100
Other Hydrocarbons and Alcohol	591	0	0	7	0	0	0	290	0	0	101
Unfinished Oils	0	0	3,365	1,076	0	0	0	9,178	0	-4,737	49,428
Motor Gasoline Blending Components	0	0	138	-1,561	0	-1,239	0	79	o	-2,741	18,319
Aviation Gasoline Blending Components	0	o	0	-57	0	0	0	69 P	0	12	252
Finished Petroleum Products	283	190,989	3,521	-694	O	-98,407	c	0	4,968	90,724	124,636
Finished Motor Gasoline	0	92,350	ŝ	1,125	0	-62,235	0	0	424	30,816	46,770
Finished Leaded Motor Gasoline	0	38,818	<u></u>	1,447	0	-26,212	0	0	424	13,629	22,673
Finished Unleaded Motor Gasoline	0	53,532	0	322	0	-36,023	0	O	0	17,187	24,097
Finished Aviation Gasoline	<u>5</u>	368	0	25	0	-448	0	0	0	9/	605
Naphtha-Type Jet Fuel	0	2,847	0	21	0	-985	0	0	(8)	1,883	2,704
Kerosene-Type Jet Fuel	0	12,236	116	1,349	0	-10,722	0	0	0	2,979	10,375
Kerosene	61	2,278	240	-405	0	-232	٥	Φ	(s)	1,883	2,704
Distillate Fuel Oil	-	37,448	459	-2,722	0	-19,383	0	0	391	15,412	32,450
Residual Fuel Oil	0	10,061	2,057	-223	0	-1,786	٥	0	8	9,265	13,756
Naphtha and Other Oils for Petrochem.	•	100		,	•	;	•	•	100		1010
Feedstock	0	10,837	323	4	0	Ŷį	> (5 (765	10,311	4,404
Special Naphthas	126	1,258	277	-211	٥	-371	0	0	35	40,	1,642
Lubricants	0	2,751	(s)	493	0	-1,214	0	0	369	1,661	4,815
Waxes	0	328	N	-77	0	-7	0	0	ଷ	226	556
****** *****	0	4,962	0	119	0	0	0	0	2,477	2,604	678
Asphalt and Road Oil	0	4,342	0	240	0	-915	0	0	<u>®</u>	3,667	3,391
Sell Gas	0	7,758	0	0	Ö	0	0	0	0	7,758	0
Miscellaneous Products	20	1,165	17	-10	0	-72	0	0	6	1,141	726
	163.497	196.896	71.976	-11.208	-28.482	-87.746	6	192,635	5,760	106,529	764,615
I CKE											

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 9. PAD District IV, Supply and Disposition of Crude Oil and Petroleum Products, July 1983 (Thousand Barrels)

			Su	Supply				Dispo	Disposition		
Commodity	Field Produc- ton	Refinery Produc- ton	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude On!	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 17,571	0	1,481	1,514	-6,186	0	o	14,375	0	S	13,298
Natural Gas Liquids and LRGs	2,220	144	327	-15	0	-1,208	0	431	0	1,037	1,109
Liquefied Petroleum Gases	766	144	238	φ	0	-196	0	312	0	634	523
Other Products ²	1,454	0	83	op I	0	-1,012	0	119	0	403	586
Other Liquids	0	0	87	416	0	0	0	-366	0	869	4,492
Other Hydrocarbons and Alcohol	0	0	0	0	0	0	0	0	0	0	·
Unfinished Oils	0	0	87	103	0	0	0	-520	0	710	2,757
Motor Gasoline Blending Components	0	0	0	313	0	0	0	154	0	159	1,734
Aviation Gasoline Blending Components	0	0	0	O.	0	0	0	0	0	o	0
Finished Petroleum Products	2	14,661	145	937	0	-189	0	0	G	15,559	11,598
Finished Motor Gasoline	Ø	7,382	73	<u>ئ</u>	٥	-94	0	0	(s)	7,338	4.695
Finished Leaded Motor Gasoline	6	4,611	20	-5-	o	-189	0	0	(S)	4,496	2,969
Finished Unleaded Motor Gasoline	0	2,771	ო	-26	0	92	0	0	_	2,843	1,726
Finished Aviation Gasokhe	a	47	0	e P	0	24	٥	0	0	62	63
Naphtha-Type Jet Fuel	0	408	0	٦	0	-71	0	0	0	336	368
Kerosene-Type Jet Fuel	0	969	0	32	0	389	0	0	0	1,120	719
Kerosene Kerosene	٥	40	0	-	0	0	0	0	-	40	56
Distillate Fuel Oil	0	3,921	29	-240	0	437	0	0	0	3,311	3,041
Residual Fuel Oil	0	320	ιn	φ	0	0	0	0	0	304	497
rapinita and outer one for reposition.	c	•	•	•	•	•	ć	c	3	•	c
Perdollar	o c	o u		- c	5 C	> 0	.	> 0	<u> </u>	- c	vi ș
Unbright	o c	, 6	<u> </u>	, r-	o c	-	0 0	o c	<u>.</u>	A 6.	o 4
Maxes	, c	3 00		. 67	· c	c	0 0	c	- c	1 =	3 -
Dotroloum Coke		323	· c	27.0	· c		o C	· c	. ~	1 13/	- 071
Asphalt and Road Oil	0	845	0	446	0	0	0	0	(S)	1,288	1.938
Still Gas	0	528	0	0	0	0	0	0	0	528	0
Miscellaneous Products	-	92	(s)	-24	0	O	0	0	(s)	53	25
Total	19,801	14,805	2,040	2,852	-6,186	-1,397	0	14,440	S.	17,469	30,497

¹ Unaccounted for crude oil is a balancing item.
2 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
(s) Less than 500 barrels.
E = Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanation Notes on Data Collection and Estimation.

Table 10. PAD District V, Supply and Disposition of Crude Oil and Petroleum Products, July 1983 (Thousand Barrels)

		į	Ö.	Supply							
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi-	Unac- counted For Crude	Net Receipts	Crude	Pispo Refinery Inputs	Disposition ary Exports	Products Supplied	Ending Stocks
Crude Oil (Including lease condensate)	E 87,402	•	9.785	1 330	900.5						
Natural Gas Llouide and 1 DC.				200	976'6-	-22,184	64	70,820	4,148	1,988	80,871
Liquefied Petroleum Gases	1,066 610	1,610	820	-350	0	0	0	708	125	2.313	2 430
Other Products ²	456	0	397	ş 4	0 0	0 0	0 (438	125	1,734	2,379
Other Liquids				•	•	5	۰,	270	0	578	09
Other Hydrocarbons and Alcohol	582	0 (1,102	108	0	0	c	580	c	,	
Unfinished Oils	200	5 6	0	•	0	0	0	583	-	212,1	33,698
Motor Gasoline Blending Components	0 0	•	200	962	0	0	0	335	0 0	900	0 7 10
Aviation Gasoline Blending Components	c	o c	4 0	-193	Ö	0	0	-345	0	 	2,-10
	•	•	>	4	0	0	0	4	0	20	0000 0000 0000
Finished Petroleum Products	0	74.201	1 907	A EDS	•					,	3
Finished Motor Gasoline	0	33.151	186	2054	.	3,726	0	0	5,761	69,571	56,702
Finished Leaded Motor Gasoline	0	14,349	665	2 5	> c	2,047	0	0	93	33,240	21,663
Finished Unleaded Motor Gasofine	0	18,802	587	000	5 0	902,1	0	0	8	14,920	10.118
Market The Casoline	0	279	3	200	> c	841	0	0	0	18,321	11.545
Indpirita-1ype Jet Fuel	0	1.374	· c	5 8	- (0	ο.	0	o	333	534
Kerosene-iype Jet Fuel	0	7.731	144	3 8	> 0	997	0	0	0	1,617	1.762
Netosene	0	134	0	7	5 C	324	٥.	0	37	7,666	5.637
Desdied First Off	0	11,397	76	420	0 0	9 6	o (0	(<u>s</u>)	130	373
Naphtha and Other Oils for Petrochem.	0	8,748	354	-152	0	gφ	0	90	1,225 1,956 1,956	10,735	11,002
Feedstock	0	688	c	90	c	,	,			1	0000
opecial Naphthas	0	106	, L	3 9	> c	> c	0 (0	7	645	692
Ludicants	0	417	1.00	-197	o c	٥ <u>۲</u>	.	0	Ψ-	112	339
SAXBY	0	69	-	1	0 0	<u>.</u>	۰ د	0	88	558	1.317
Petroleum Coke	0	3.544	- ح	ī	> (> (O +	0	က	57	62
Asphait and Road Oil	0	2,317	۸ د	g e	> 0	၁	0 (0	2,461	1,014	2,104
Call Gas	0	4,055	0	3 -	> c	> c	5 (0	N)	2,290	2,342
Wiscellandous Froducts	0	200	œ	-76	0	9 0	> c	o c	0 4	4,055	٥
Total	010					•	•	•	4	128	300
	20,80	75,811	13,614	2,586	-5,328	-18,458	49	72,108	10.035	75.083	173 710
1 Unaccounted for crude oil is a halanding item								·i		*****	2

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels
 E = Estimated.

 Noter Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Current Available Month, ¹ May 1983 (Thousand Barrels)

PAD Distnot and State

-Continued

					Average
	Produ	Production	PAD District IV		,
PAD District and State		Daily	Colorado	2,337	e i
ļ	otal	Average	Montana montana	E 2,626	38.5
PAD District I			UED	F 2,446	D (40)
Fiorida	1,683	75	Wyoming 900	ດີ	310
New York	F 7.1	ш	Adjustment 2	277	6
5	1 1	J (Total PAD District IV	토 17,593	E 568
THINKING IN ANY AS A COMMENT OF THE PROPERTY O	g .	21.2			
VIIIIII	4	o !	DAN District V		
West Virginia	93	₽	Siege Siege		
Adjustment 2	8	m	Alabara C.	0	ç
- 2	E 2,523	E 81	South Alaska	2,130	8 6
			North Slope	49,401	40°.
DAD District II			Adjustment for Alaska?	1,485	84
	000	6	Total Alaska	53,016	1,710
Will Will special section and the section of the se	2,480	2 :	Anzona	17	•
indiana	427	4	CLICATION	:	•
Kansas	5,948	192		•	
Kentucky	689	22	Central Coastal	6,480	503
Michigan	E 2.40B	1 02 11	East Central	21,579	969
	1,400	2 ,	North	16	-
Wigodia and an analysis and an	- ! -	<u>.</u> :		6 661	215
Nebraska	547	₩	Total California	90. Vo	2 7
North Dakota	4,244	137	•) ;	
- 1	E 1 238	E 40	TANABAR	2	N
Octoborso	T 40 247	2,7	Adjustment for Arizona, California, and Nevadaz	8	ო
Child Child the Commence of th	7 1	2 4	Total PAD District V	87,903	2,836
POOR O THE PROPERTY OF THE PRO		99 (
191098899	86	က	United States Total	E 269.151	E 8 682
Adjustment 2	-131	7			and a
District II	E 31.794	E 1.026	1 location the following offerborn production (thousands of homes)	wofe!	
				disj.	
PAD District III			California: Enders 5 805 Ctato 5 705		
	1 5.49	ç	Louisians: Fodoral C. O. Den Chair and Ch.		
Adams	1 2 2 2	3 5	Tours Codon C 4 304 Char 467		
AIRCHIDES MINISTER MINISTER MANAGEMENT CONTRACTOR CONTR	100,	70 5	10 4-1-1 1 00 001		
Schishard.		1	-	i	
Court Coast	= 37,541	1,211	c These adjustments are used to reconcile the national and PALUL	age.	
Rest of State	2,817	5	level sums of the state data with the independently estimated	ed	
Total Louisiana	E 40,358	E 1,302	U.S. and Alaskan figures shown in the Summary Statistics portion	northon	
Mississippi ,iqqississippi ,	2,580	88	of this issue and with the PADD level figures published in a		
New Mexico			previous issue. Final data at the State, PAD District and		
Northwestern	700	4	national levels will be published without adjustments in the		
	2007 2	984	Petroleum Supply Annual.		
7-4-1 Alana & Andre &	200	2 5	Sources: See Explanatory Notes on Data Collection and Estin	nation	
I DUBLINGW MBXICO	0,2,0	707	E = Estimated		
- exes			- Data not available.		
HHC DEED JAH	2,065	φ'			
TRRC District 02	3,404	110			
TRRC District 03	E 11,026	E 356			
TRRC District 04	2,283	74			
TRRC District 05	808	9 2			
TRRC District Of excluding Fast Texas	3.545	114			
TODO Distant 07B	Spa c	93			
	2000	2 6			
	2,830	- i			
TRAC District 08	19,282	622			
TRRC District 08A	19,198	619			
TRRC District 09	3,226	\$			
	1,815	92			
Fast Texas	4.419	5			
Total Taxas	E 76,796	E 2,477			
Adii etmant 2	88	en			
Total	E 129.338	E 4.172			
The state of the s		! ::-			

Table 12. Natural Gas Processing Plant Production of Petroleum Products by PAD District, July 1983 (Thousand Barrels)

Commoditie	5	Annala.	-		¥.	PAD District	=				o cva						ı
Simon in the second sec	Coast	chian #1	Fotal	Appaia- chian	를 를 장	Wisc.	Okla., Kans.,	Total	Texas	Texas	e j	No. La.	New	T-		PAD Dist V	United
Natural Gas Liquids	448	388	968			naks	QQ MO		Diagram of the control of the contro	Coast	Coast	ĀĶ	Mexico	E 10	M Kocky	West	States
Natural Gasoline and Isopentane Unfractionated Streets	57	} ₽	97	> 0	1,70 52	474	6,667	8,911	20,013	3,251	7,147	585	3.256	34.252			
Plant Condensate	00	ဇ္ဌ	8	0	785	3 S	-1.497	1,367	1,945	2,493	1,248	138	339	6,163	7,720 345	1,066 463	47,285 8,435
Light Petroleum Gases	391	345.0	0 202	0 0	5	56	48	95	8	-13,061 284	95 40 80 80 80 80 80 80 80 80 80 80 80 80 80	-134	1,911	83	982	-7	472
Propage	145	167	312	00	386 386	272	6,886	8,068	6,861	13,535	5,509	566	900	537 27 460	127	0 9	759
Butane	146	5 8	246	0	360	169	2,665	3.194	799	2,961	1,923	8	75	5,789	88) (0	37,619 7.599
Butane-Propane Mixtures	<u> </u>	, o	4 0	00	<u>წ</u> c	8.	990	1,153	1,194	2,106	808 628	157 235	433 245	8,853	482	355	13,130
Isobutane	о <u>т</u>	Οţ	0 ;	0	. 6	00	1,743	1,786	51	3 187	1 22	2	0	108	- œ	29 20 20	6,144 150
Finished Petroleum Products	? ;	2	ģ	5	4	13	388	449	306	1,240	570	133	និន	5,979 2,332	O ru	0 -	7,765
Finished Motor Gasoline	4 2	00	4:	0	-	o	ĸ	ω	266	d	c	•)	:	20,7
Finished Leaded Motor Gasoline	123	0	\$ K	00	00	0 (0	0	0	0	0	φς	N C	283	5.	0	343
Finished Onleaded Motor Gasoline Finished Avation Gasoline	61	0	9 6	0	0	> 0	o c	0 0	0 0	0 (0	0	0	0	D) On	0 0	5 23
Naphtha-Type Jet Fuel	00	0 0	٥	0	o	0	0	0	5	-	0 6	0 (0	0	0	0	5 6
Kerosene-Type Jet Fuel	0	> C	> c	0 0	0 0	0	0	0	0	0	> c	> c	0 0	<u>\$</u> (0	0	104
Distillate First Oil	0	0	0	0	0 0	ə c	0 0	00	0	0	o o	0	00	00	0 0	0 0	0 0
Special Naphthas	٥ ،	0	0	0	0	0	0	> C	7	0 0	0 (-	8	N	0	0	٥ د
Miscellaneous Products	0	00	00	00	۰ -	00	0	00	126	0	0	00	0 0	- 2	00	00	ı (
Total Production	400	000	0		•	•	n	۵	36	മ	0	ς,	0	20	-	00	57
	705	000	089	0	1,771	474	6,672	8,917	20,279	3,260	7.147	193	9 950				

¹ Production represents quantity of natural gas processing plant output less input to fractionating facilities Source See Explanatory Notes on Data Collection and Estimation

Table 13. Refinery Input of Crude Oil and Petroleum Products by PAD District, July 1983 (Thousand Barrels, Except Where Noted)

	ć	Dictorio,			pAq	PAD District	=				PAD Distnet III	nct III			PAD	├	
Commodity	East	Appala-	Total	Appala- chian #2	Ind.,	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas Inland	Texas Gulf Coast	Coast	No La., Ark. M	New Mexico	Total		Vest Coast	United
Crude Oil (including lease condensate) 32,469	32,469	~	34,746	4	58,308	8,685	20,269	88,366	15,407	92,872	58,301	5,454	2,425	174,459 14,375		70,820	382,766
Spinot Local Journal															i	į	
Natural Gasoline and Isopeniane	28	0	58	0	555.	83	302	1,553	1,398	2,294	338	4	86	4,164	<u>, 9</u>	270	960'9
Matural Gasonia and Jopenian Comment	·	· C	C	0	0	0	0	0	0	0	0	0	0	o	0	٠	٥ ;
Unitactionaled Stream	> <	o c	· c	· c	15	0	00	112	0	517	O	2 5	0	684	38	0	834
Plant Condensate	9 6	o o	, K	° 6	1 483	289	269	2.403	478	1,346	1,563	125	38	3,550	312	438	6,738
Liquened Petroleum Gases	ų c	0 0	3 0	, c		0	0	2	0		82	0	0	88	0	0	88
Ethane	> 0	o c	• •	o c	ا ا بڑ	· C	· c	3	C	2	5	0	0	47	72	ထ	102
Propare	o c	5 a	o a	2	35.5	218	506	1.105	102	1.054	947	5	0	2,118	176	243	3,650
Butane	o 6	0 0	9 0	4 0	3 6		-	~	0	8	102	0	~	173	62	8	275
Butane-Propane Mixtures	> 0	> c	0	0	4 C	· c	· c		0	0	0	0	0	0	0	0	0
Ethane-Propane Mixtures	27	00	27	4	788	7,	360	1,259	376	225	384	110	33	1,126	62	149	2,623
Other Liquids	0	c	G	c	300	c	c	399	20	261	304	0	Ŋ	290	٥	583	1,629
Other Hydrocarbons and Alcondi	3 395	9	3.365	-15	-202	34	802	619	227	6,776	1,921	112	142	9,178	-520	335	12,977
Market Cooley Blooder		}												i	1		
Motor casonne prending Components (net)	297	5	310	N	878	37	940	1,783	998	9/	878	5	ω	92	1 54	-342	1,984
Avation Gasoline Blending Components (net)	٥	0	0	0	42	0	-33	თ	4	0	59	0	0	အု	0	4	-56
Total Input to Refinences	36,273	2,268	38,541	1,153	61,564	9,064	23,463	95,244	16,658	104,142	63,249	5,882	2,704	192,635 14,440	4,440	72,108	412,968
Section 19 10 children															;		0
Gross Input (daily average)	1,081	2	1,154	88	1,905	291	665	2,899	512	3,104	1,896	185 185	6. Ç	5,777	900	105,2	16,330
Operable Capacity (daily average)	1,473	174	1,647 1 07	66 57.0	2,351 81 0	295 98.6	854 77.9	3,565 81,3	612 83.7	4,042 76.8	62.9 65.9	62.8	742	728	83.1	738	74.9
Crude Oil Qualities																	
Sulfur Content, Weighted Average (percent)	1.01	34 41.63	31.97	.86 34.99	.93 36 12	1 58 30.80	.59 37.53	.92 35.91	.69 37.75	.87 35.53	34.07	31.89	76 39 08	.82 35 17	93 35 17	99 26 06	.89 33 35
Constant of the State of the St	1 473		1 647	99	2.351	295	854	3,565	612	4,042	2,877	232	107	7,932	561	3,119	16,824
Operating		5 2	1,376	80	2,173	295	714 140	3,249	29 29	3,404 638	2,264 613	233	107	6,590 1,342	5 32	2,837 281	14,587 2,237

1 Represents gross input divided by operable capacity. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 14. Refinery Production of Petroleum Products by PAD District, July 1983 (Thousand Barrels)

	ď	PAD Distric	1		PAD	D District	=				PAD Pag	Pasteret III			2	2	
Commodity	East	<u> </u>	ŀ	Appala-	Pul	Minn.	Okla,		1	Texas					A E	4 2 2 2 2 3 2 4 2 4 2 4 2 4 2 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	100
	Coast	chian #1	lotal	chian #2		Wisc., Daks	Kans. Mo	Total	Inland	Gulf	- Ja 5	No La,	New Mexico	Total	Rocky	West	States
Liquefied Refinery Gases , For Patrichamon Economics 11.5	1,095	12	1,107	92	1,645	194	441	2.306	182	2.840	2 703	1	1 5		3	Loasi	
For Other Uses	369	ې ۵	369	0 (277	-	69	347	36	1,375	1,305	- on	30	2,307	4 4	0.0°.	2762
Ethane	8	2 0	8	% 9	1,368	193	372	1,959	146	1,465	1,398	88	50.	3,182	148	1.285	7,312
For Petrochemical Feedstock Use	•	0 0	> C	5 6	2 6	> 6	0 0	0	0	227	유	0	0	267	0	7	566
For Other Uses		0	0	0	o c	o c	> C	0 (0 (302	8	0	0	307	0	0	307
Propane	976	12	988	88	1.571	185	534	2 246	ع د	202	φ.	0 (۰ ;	260	0	7	259
For Perochemical Feedstock Use	284	0	284	0	205	0	69	274	36	1,630	004	3	9	4,010	170	995	8,479
	692	12	704	56	1,366	185	465	2,042	172	1,233	1.251	200	၁ မှု	2 770	2,0	225	2,023
hemical Feedstock Use	2 K	> c	119	0 0	₽ '	σ·	-97	-78	-58	45	1,237	17	8 8	1.203	7	26.5	4,430 808
For Other Uses	8 8	0 0	3 8	> <	-	- 0	3 C	- 6	0	4	1,104	თ	0	1,157	0	50	1,343
Butane-Propane Mixtures	0	0	; 0	• •	2 q	0 0	Ď.	6/-	80 °	စို (133	ထ	31	46	ï	465	465
For Petrochemical Feedstock Use	0	0	0	0	0	, 0	÷ C	9 =	N C	2 0 c	ω α	04 0	<u>8</u>	106	5	51	132
ror Order Uses	0	0	0	0	စု	0	4	7	۰ د	2 0	> 4	> c	- ;	D ;	; ۵	0	0
Chicked Material Control of the Chicked Material Control of the Chicked Material Control of the	0	0	0	0	72	0	0	. 2	1 0	2 5	o c	V C	200	2 3	-5.	2	132
Finished Podded Matter October 7	17,385	768	18,153	634	37,148	4,827	14,130	56,739	8.428	48 986	31 963	1 84.0) (2 2 2	4 5		88
Finshed Leaded Motor Casoline	6,553	377	6,930	303	16,499	2,568	8,462	27,832	4.090	20.125	13.099	2 8	 600	32,330	795'		207,775
Finished Aviation Casolina	10,832	39,	11,223	331	20,649	2,259	5,668	28,907	4,338	28,861	18.864	9 6	200	52,610	4,0		92,540
Naphtha-Two let Engl	ני פי	0 !	ا	0	107	0	જ	132	*	222	142	0	}	3 6	- [0.00
Kerospo-Two lot D.ol	3;	ر	745	t S	740	5	388	1,257	669	989	489	169	50.	0 0 0	Ì	010	200
Kerosene	50.0	0 9	1,113	<u></u>	2,544	431	492	3,480	726	5,755	5,697	9	2 6	12.23	9 9	470,7	50,00
Distillate Fuel Or	200	2 5	-138	4	2	ဖ	88	181	g	1,340	913	-	-	2 27B	8 8	5.5	2,405
Residual Fuel Oil	405,0	20	1,931	S85	11,153	1,929	5,559	18,906	3,624	20,211	11,260	1,628	725	37,448	3.921	11 397	80,430
Q	367	2 0	26,782	2 6	1,339	216	335	1,952	900	7,006	2,149	261	\$	10,061	359	8,748	23,902
Other Oils > 400 Deg. For Petro. Feed Use	3	0	Š	o c	2 6	> c		834	263	2,422	222	92	O	3,272	0	108	4.579
Special Naphthas	000	33.0	4	o c	276	> c	- 40	33	15	4,861	2,589	0	0	7,565	0	582	8,291
:	258	375	633	-	417	> c	2 2 2 2 3	461	မှု	8	75	138	0	1,258	ιņ	106	1,871
Waxes	ผ	77	9	0	σ.	o c	ž č	4 7	ŋ	1,772	683	292	0	2,751	56	417	4,571
Petroleum Coke	1,199	16	1,215	5	2,233	297	9 6	200	o c	200	200	22 2	0 ;	358	œ	8	532
Marketable	446	0	446	0	1,230	122	84	1 25.02	3 4	7,00,7	775	3 8	27.0	4,962	323	3,544	13,246
Catalyst	753	16	769	12	1.003	125	7.	1 25.	5 8	2,7	000	2 8	> (0,530	153	2,763	7,523
Asphalt and Road Oil	3,084	87	3,171	105	2,776	950	909	4.430	3 6	4.4	4 000	3 8	2 7	2,652	170	781	5,723
oul das	1,653	82	1,738	34	2,664	321	919	3 938	465	4 560	977.0	50.5	2 5	4, t	842	2,317	15,111
For Petrochemical Feedstock Use	186	0	186	0	-	0	0	-	10	445	2,4 AB	3	2 5	90,7	S S S S	4 CCD,	18,017
Mostly	1,467	8	1,552	34	2,663	321	919	3.937	460	4.115	2 430	200	e G	7 262	9 5	8 8	0,0
	8	43	133	2	101	56	46	175	98	716	338	45	} <	1504	200	500°	7,44
Non-End Hea	ကျ	54	27	0	-	0	7	80	0	53	291	i o) C	300	5 <	3 8	7 6
Noticinal use:	87	9	106	0	5	56	33	167	99	687	47	45	0	84 45	72	167	1,357
Total Production	37,870	2,227	40,097	1,182	64,185	9,301	24,261	98,929	16,447	106,169	65,642	5,905	2,733	196,896	14,805	75,811	426.538
Processing Gain(-) or Loss(+)1	-1,597	4	-1,556	-29	-2.621	-237	-798	-3.685	213	5000	000	Ę	8				
								1	i	14,46,	5,030	Ş	P)	4 15	9	-3,703	-13,570

1 Represents the antimetic difference between input and output. Note: See Explanatory Note on negative production. Source: See Explanatory Notes on Data Collection and Estimation.

Table 15. Percent Refinery Yield of Petroleum Products by PAD District, July 1983

	P.	PAD District	=		A	PAD District	=				PAD District	net III			PAD	PAD	
Commodity	East Coast	Appala- chian #1	Total	Appala- chan #2	Ind., III, Ky.	Minn , Wisc , Daks	Okla., Kans., Mo	Total	Texas	Texas Gulf Coast	La Gulf Coast	k a	New Mexico	Total	Dist. (V Rocky Mt	Dist V West Coast	United
Finished Motor Gasoline ²	47.3	33.2	46.5	52.3	58.1	514	556	567	473	446	479	27.5	386	45.4	49 1	453	48 1
Finished Aviation Gasoline3	0	O,	0	O,	Τ,	Q	ო	-	-	2	က	o;	0	7	ო	4	N
Liquefied Refinery Gases	3.1	ιú	2.9	24	2.8	2.2	2.1	26	7.	2.9	4.5	4	4.1	3.2	10	23	28
Naphtha-Type Jet Fuel	2.0	5.0	2.0	1.4	ا	7	19	1.4	45	0,1	ထု	30	19.5	9	5 9	6	17
Kerosene-Type Jet Fuel	3.1	۵	2.9	1.2	4.4	4,9	23	9.9	4.6	5.8	9	•	20	67	20	109	64
Kerosene	1	rů	4.	13	κį	۳.	ςį	ςį	-	ლ	د ت	0	0	1.2	ကု	2	ωį
Distillate Fuel Oil	23.2	27.9	23 4	243	19.2	22.1	264	212	332	20.3	18.7	29.2	282	204	28.3	160	20 4
Residual Fuel Oil	9.7	2.4	73	5.7	23	25	1.6	22	3.8	7.0	36	47	1	5	56	123	9
Naphtha < 400 Deg. F. Petro Feed Use	0.1	0	1.0	0	ب. دی	0	က	c n	36	24	4	1.2	0	78	0	۲.	<u>1,</u>
Other Oils > 400 Deg F. Petro. Feed Use	c,	0	0.	0	ςi	0	ó	7	۲.	49	4.3	0	0	4	٥	ω,	21
Special Naphthas	0.	1,5	-	0	ιú	o	Oļ	πi	۳.	=	0	25	0	7	0	Ψ,	ιΩ
Lubricants	۲.	16.7	17	0	۲.	0	9.	œί	0.	4 0	-	53	0	15	8	9	12
Waxes	۲,	32	κį	0	0	0	Ŋ	_	τ.	κi	N	0	0	N	-	•	
Petroleum Coke	9	7	3.2	11	3.8	3.4	3.1	36	19	2.6	32	17	ιń	27	2.3	20	დ დ
Asphalt and Road Oil	8.6	3.9	8.3	96	4.8	109	5.9	5.0	40	ω	3.3	18.4	4.4	24	61	33	38
Stil Gas	4.6	38	46	3.1	46	3.7	4.4	4.4	3.0	4,6	4.1	37	9.	42	3.8	2 2	46
Miscellaneous Products	ત	19	κļ	Ŋ	N	ო	Ŋ	κį	4.	2	ø,	æ	0	9	co	ო	4
Processing Gain(-) or Loss(+)4	4.5	48	4	-27	4.5	-2.7	3.8	4	13	-2.0	0.4	4	-1.1	-23	-2.6	-52	-3.4

Based on crude oil input and net reruns of unfinished oils.
 Based on total finished motor gasoline output plus net output of motor gasoline blending components, mnus input of natural gas plant liquids, other hydrocarbons and alcohol
 Based on finished wation gasoline output plus net output of aviation gasoline blending components
 Represents the difference between input and Production.
 Note. Totals may not equal sum of components due to independent rounding.
 Note: See Explanatory Note on negative production.
 Sourcer See Explanatory Notes on Data Collection and Estimation.

Table 16. Imports of Crude Oil and Petroleum Products by PAD District, July 1983 (Thousand Barrels)

			Petroleum Administratio	Petroleum Administration for Defense Districts		
Common	-	=	111	λł	>	Total
Crude Oil (including lease condensate) 1.2	27,580	16,409	64,658	1,481	9,785	119,913
Natural Gas Liquids	568	4,753	294	327	820	6.761
Natural Gasoline and Isopentane	306	0	C	-	397	202
Plant Condensate	35	0	. 0	68	C	124
Liquefied Petroleum Gases	722	4,753	294	238	423	5.935
*****	0	2,670	C	9	2	0.670
*****	120	1	0 0	021	145	969
	<u> </u>	643) c	4-12	<u>87</u> 6	1 145
Butane-Propane Mixtures	2	} =	29.6	2 -	2	706
	0	1,129	0	00	00	1,129
Other Liquids 1	2,853	802	3,503	87	1.102	8,347
•	2.572	677	3,365	78	738	7 438
	281	125	138	;	366	606
***************************************	0	0	0	00	0	0
Finished Petroleum Products	34,546	1,259	3,521	145	1,907	41,378
Finished Motor Gasoline	7,749	195	(S)	73 ET	1,186	9,203
Finished Leaded Motor Gasoline	3,317	194	Ē	2	566	4,180
Finished Unleaded Motor Gasoline	4,432	***	٥	ო	287	5,023
Finished Aviation Gasoline	-	0	0	O	Φ.	-
Naphtha-Type Jet Fuel	0	0	0	0	٥	0
Kerosene-Type Jet Fuel	407	0	20	0	144	999
Sonded Aircraft Fuel.	> (0	0 :	Ō	၁	7
Other	407	0	116	0 6	44	89 G
	1 633	0 100	047) c	۲ _۲	200
Usulate ruel oil	810,	385	A D	ò	٥	8,076
:	7.018	30 C	9,00		2 4	4108
Residual Fire Of	18,193	545	2.057	5 LC	354	21.154
		0	0	. 0	0	
Other	18,193	545	2.057	ស	354	21,154
etro Feed Us	14	37	353	0	0	403
	(S)	(S)	0	0	0	(S)
Special Naphthas	. 87	2	772	<u>(s)</u>	16	4
Lubricants	128	80	(S)	(s)	115	251
Waxes	ઢ	ผ	8	0	-	Ψ
Asphalt and Road Oil	385	ıo	0	0	7	397
Miscellaneous Products	263	۷	17	(s)	ω	295
	100	000.00	450	4	77407	77.
Total Imports	65,547	23,223	71,976	2,040	13,614	

Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
 Includes crude oil imported for storage in the Strategic Petroleum Reserve (s). Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding Sources: See Explanatory Notes on Data Collection and Estimation.

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Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, July 1983 (Thousand Barrels)

Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel	Resid Fuel Oil	Special	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							All PAD	All PAD Districts						
Arab OPEC	7,728	0	0	0	0	0	0	652	351	0	_	1 003	8 731	282
fraq praj	1,910	0	۵	O	٥	٥	0	0	0	0	0	0	1.910	4 8
Kuwait	0	0	0	0	0	0	0	0	498	0	0	498	498	19
Saudi Arabia	5,364	0	270		0	0	0	0	0	0	(8)	270	5,634	182
United Arab Emirates Subtotal Arab OPFC	16.236	0 0	020	(G) (S)	o c	o c	o c	653	0 0	o c	566	566	1,800	28
0.100		•	i	2	•	•	•	3	}	•	3	6,00,1	10,01	n n
Other OPEC Ecuador	2 223	C	C	c	c	c	c	c	5	c	c	5	0100	9
Gabon	1,028	0	0	0	0	0	0	0	6 0	0	9 0	<u> </u>	1,028	೯ ಜ
ı	13,092	0	42	0	277	0	0	0	584	0	397	1,299	14,392	\$ \$
Iran	3,465	0 (0 (0	0	0	0	0	0	0	0	0	3,465	112
	10,2/3	⇒ c	730	> C	0 00 0	5 C	5	0 707	0 1	0	?		16,280	525
Subtotal Other OPEC	41,229	0	32	00	1,385	0	5 4 0 540 540 540 540 540 540 540 540 540 54	2,424	4,430	00	(s)	8,218 9,648	13,359	1.89,
Other														
Angola	3,181	0	0	0	0	0	0	0	305	0	0	305	3,487	112
Bahamas	0	0	795	0	0	0	83	0	883	0	235	2,148	2,148	69
Boliwa	247	0	0	0	0	0	0	0	0	۵	0	۵	247	α
Brazil	0 9	0	0	0	1,008	0	0	0	336	0	છ	1,344	1,344	43
Ganada	193	5.641	327	o ř	20 0	Ο α	o ;	900	0 50	ر م در	0 66	0 220	199	မ င်
1	1.672	0	0	9	0	0	. 0	<u> </u>	3.	7	è.	0 (0)	1,672	5 m
1	335	0	0	0	0	0	0	0	0	0	0	0	335	\$ =
France	0	0	0	0	0	0	0	0	0	0	(s)	(S)	(s)	· (6)
Malaysia	٥	0 6	٥ ۵	۵ و	\$ 8	0 (0 (φ. Ε	φ,	0	128	128	4
Mexico	080°CZ	\$ E	0 263	28.2	280	116	(S)	o 6	215	ų	- 5	, 208 208 208 208	26,305	84 65 67
Netherlands Antiles	0		1 572	; =	(3)	g	0	471	3.554	ę c	2 2	7.053	5,023 619	9 5
Norway	3,195	0	0	0	0	0	0	0	0	0	0	0	3.195	103
Oman	1,482	0	0	0	0	0	0	0	0	0	0	0	1,482	8
People's Republic of China	0 9	o •	526	273	489	0	0	0	0	0 1	0	988	988	32
Pen	285 285 285 285 285 285 285 285 285 285	0 0	٥ <u>چ</u>	ə c	200	-	၁ ဌ	0 (976	0 (۲	976	1,359	4 1
Romania	o c	> C	887	5 C	256	o c	3 5	0 0	> C	<u> </u>	ကို င	151,1	101,1	÷ 6
Tripidad and Tobago	2.667	0	0	0	0	0	0	90	2 C	0	0	542	3 208	50
•	10,732	0	189	0	208	0	0	0	586	0	5	869	11,430	369
Virgin Islands		0	2,215	0	2,325	407	0	2,468	3,863	0	0	11,279	11,279	364
1	1,086	0	0	0	0	0	0	0	0	0	0	0	1.086	ક્ષ
Other Western														
Hemisphere	140	00	®	1 5	0 5	0 6	0 0	<u> </u>	1,692	οń	4 3	1,728	1,868	8 9
Subtotal Other	62,447	5,935	6,398	606 606	7,818	999	599	4,940	15,875	445	1,216	3,324 44,502	5,724 106,949	3,450
	0,40	tico Li	1 700	000	606.0	000	ŭ	9	74 10	27.7	Č	4	000	6
l ordi imports	2181-	Coeto	2	Son	3,500	8	S	910'0	+C1,14	7	4101	30,400	885,011	neo'c

Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, July 1983 (Thousand Barrels) (continued)

Source	Gude Oil 1	LPG.	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Ou	Resid Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- feum	Total (Daily Average)
							PAD D	PAD District I						
Arab OPEC Aígeria	1,726	0	0	0	٥	0	0	652	351	O	6		2,729	88
Saudi Arabia	1,593	0	270	0	٥	0	0	0	0	٥	(8)		1,862	8
United Arab Emirates Subtotal Arab OPEC	0 3.319	00	270	<u>©</u> @	00	60	00	0 652	351	00	566 566	566 1,839	566 5.158	186 166
Other OPEC				:										
Ecuador	+	ø	0	0	0	0	0	0	129	0	0	129	130	4
Gabon	827	0	0	0	0	0	0	0	0	0	0	٥	827	27
Indonesia	2,534	0	0	0	0	٥	O	0	0	0	0	0	2,534	8
Michael	533	00	00	O	00	00	00	0 6	0 0	0 0	o c	0 0	533	17 45
Venezirela	3,270	o e	0	0	1.108	2 0	0	1.981	3.265	0		6,355	9,625	310
Subtotal Other OPEC	8,570	0	0	0	1,108	0	0	1,981	3,395	0	(S)	6,484	15,055	486
Other														
Angola	2.103	0	0	0	0	0		0	305	0	0	305	2,408	78
Bahamas	0	0	0	0	0	0		0	590	0	-	825	825	27
Brazil	0	0	0	0	1,008	0		0	336	0	<u>(S)</u>	1,344	1,344	\$
Canada	902	227	0	0	203	0		587	514	~ 0	158	1,707	2,609	3
Egypt	332	0	0	0 1	0 (0 0		0 0	0 0	> c	0	۰ ا	335	= 1
France	9	0	00	0 60	0 0	0 0	0 0	> c	107	> C	e C	(5) 758	(%) 4.216	(%)
Netherlands	, t.,	(8)	, c	3	916	0 0		479	9	. C	, 0	1.406	1,406	45
Netherlands Antiles	0		1.572	, 0) (s)	0		471	3,554	0	285	5,883	5,883	190
Norway	2,181	0		0		0		0	Q.	0	0	0	2,181	20
Oman	518	0	0	0	0	0		0 (0	0	0 0	0 5	518	4
Plant I	88	00	0 0	0 0	0 5	0 0		> c	0 0	> ¢	÷	9/6	5.50 7.10	3 \$
Puerto Higo	5 C	> 0	8	o c	232	0 0		766	> <	2 0	3 0	996	988	3 8
Tondad and Tobaco	AAR	o C	0 0	, c	2	0		90	542	0	. 0	545	986	8
United Kindom	4.132	. 0	0	0	208	0		0	286	0	(S)	494	4,626	149
Virgin Islands	٥	0	299	0	2,325	407		2,468	3,564	0	0	9,064	906	292
Zaire	734	٥	0	0	0	0		0	0	0	0	0	<u>8</u>	% 4
Other Western	c	•	•	c	•	-	-	c	1 692	C	c	1.692	1.692	55
Cator Control Homisphore	200	•	Ş	-	430	•	o c	153	1891	(s)	(S)	2,666	3,165	102
Subtotal Other	15,690	227	2,302	281	6,641	407	299	4,386	14,446	87	567	29,644	45,334	1,462
Total Imports	27,580	227	2,572	281	7,749	407	298	7,018	18,193	87	1,133	37,967	65,547	2,114
							PAD D	PAD District II		}				}
Arab OPEC	000	c	c	c	•	c	c	c	c	c	C C	Ф	669	8
Algeria	1.896	0	0	0	0	0	0	00	0	0	0	0	1,896	6
Subtotal Arab OPEC	2,595	0	0	0	0	0	ø	0	0	0	0	0	2,595	2

Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, July 1983 (Thousand Barrels) (continued)

Chart OPEC 1,150 0,17	Source	Onde 1	D _Q	Unfin- ished Oils	Gasoline Blending Compo- nents	Finshed Motor Gasoline	Jet Fuel	Kero- sene	Dıstil Fuel Oıt	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2′	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
Fig. 19 Fig.	' 							PAD D	Istnct II						
Color Colo	1	452	0	0	0	0	0 (0 (00	0.0	00	00	00	452	5 5 7
Company Comp	-1	476	Q C	0 77	0 0	0 0	0	0	0	0	0	0	477	729	24 5
Color Colo	I Other OPEC	1,180	0 0	477	0	0	0	0	0	0	0	0	477	1,656	8
Second S				Š	ç	y c	c		305	745	Z	G.	6.338	13.147	454
Second		6,810	6,7,4 5,0	80	<u>0</u> 0	<u>g</u> 0	00		60	} 0		90	0	860	83
Colored Colo		3 0	0	0	0	0	0		0 (0	00	(S)		(8)	(s)
140 0 0 0 0 0 0 0 0 0		2,178	0	0 (00	00	00		00	00	0 0	O (5)		S) [3]) (8)
1,409	ands	0 6	0 0	o	0 0	0	00		0	00	0			520	17
Hemisphere 1569	and Tobago	435	0	0	0	0	0		0	0	0	0	0	435	14
Hemsephere 140 Co Co Co Co Co Co Co C	Kingdom	792	0	0	0	0	0		0	ø	0	0	0	792	92
Hemsphere 12,634 4,753 200 125 195 0 0 0 395 545 64 59 6,338 18,972 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	vestern sphere	140	0	•	0	0	0		0	0	0	0	0	140	φ.
12,654 4,753 577 125 195 0 0 395 545 64 59 6.814 23,223 77 15,409 4,753 677 125 195 0 0 395 545 64 59 6.814 23,223 77 15,409 4,753 6 6 6,814 23,223 77 15,409 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	astern Hemisphere	839	0	۵ و	0 4	0 4	00		30 C	7. O	- Z	⊃ <u>6</u> 2	6.338	18.972	612
16,409 4,753 677 125 195 0 0 395 545 64 59 6814 23,223 77 125 135 135 135 135 135 14 14 14 14 15 14 15 14 14	al Other	12,634	4,753	3	2	8	>		9	}	5	3 8			
A - 304 C - 10	ports	16,409	4,753	22.0	125	195	0		395	545	2	£ 2	6,814	23,223	/49
1,000 1,00			:		,			PAD C	istnct III						
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	EC	4,904	0	0	0 (00	00		00	00	00	00	00	4,904	(s) 1.58
Second Periods Seco	***************************************	4 c	0 0	00	5 C	-	9 0		0	498	0	0	498	498	. 16
Figure F		, i	o c	o ¢	0	• 0	• •		6	C	0	0	0	3,771	122
1,861 0 <td>Arah Emirates</td> <td>1234</td> <td>, 0</td> <td>0</td> <td>0</td> <td>0</td> <td>•</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0 (</td> <td>0 !</td> <td>1,234</td> <td>4 8</td>	Arah Emirates	1234	, 0	0	0	0	•		0	0	0	0 (0 !	1,234	4 8
1,861 0 <td>al Arab OPEC</td> <td>9,923</td> <td>0</td> <td>•</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>498</td> <td>0</td> <td>0</td> <td>884</td> <td>10,421</td> <td>ş</td>	al Arab OPEC	9,923	0	•	0	0	0		0	498	0	0	884	10,421	ş
1,001 1,00	PEC	700	c	c	c	C	0		0	0	0	0		1,861	9
ia 2,720 0 <td>X</td> <td><u> </u></td> <td>0</td> <td>0 0</td> <td>0</td> <td>• •</td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>201</td> <td>9</td>	X	<u> </u>	0	0 0	0	• •			0	0	0	0		201	9
2,480 0 <td>c. 2</td> <td>2720</td> <td>0</td> <td>C</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>505</td> <td>0 '</td> <td>0 (</td> <td></td> <td>3,225</td> <td><u>\$</u></td>	c. 2	2720	0	C	0	0	0		0	505	0 '	0 (3,225	<u>\$</u>
THE SECRET SECRE		2,480	0	0	0	0	0		0 0	0 0	> c	5 C		2004,2	8
Ida 1,279 0 252 0 0 240 443 955 0 2 1,892 24,830 8 Other OPEC 22,938 0 252 0 0 0 0 0 0 1,079 0 1,079 0	***************************************	14,398	0	0		0 (7 6	o C	1 C		2,665	86
S	uelaal Other OPEC	1,279 22,938	00	252 252		00	30			955	• •	, ev		24,830	801
S 0 795 0 0 0 0 234 0 234 1,323 1,323 S 0 0 0 0 0 0 0 173 975 S 0 0 0 0 0 0 0 0 0 0 S 0 0 0 0 0 0 0 0 0 0 0 S 0		1.079	0	0		0	Ŭ			0		0 7	•	1,079	88 s
802 0 40 0 0 0 0 0 0 0 0 812 812 0 0 0 0 0 0 0 0 0 812 0 0 0 0 0 0 (s) (s) (s)		0	0	795		0 (44.		4, 0	-	975	3 E
(s) (s) (s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Z	805	0 0	Q C		-				0				812	56
		20	0			0				0		<u>(s)</u>	(8)	(s)	(2)

Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, July 1983 (Thousand Barrels) (continued)

(communed)								i						
Source	Crude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Dıstıl. Fuel Oil	Resid Fuel	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD District III	strict III						
Other Mexico	19,300	294	0	(8)	(8)	116	<u> </u>	60	13	-	2	429	19.729	92
Netherlands	٥	0	0	64		0		0	0	36	100	161	161	3
•	1,014	0 0	0 0	0 (0 (0	0	0	0	0	0	O	1,014	88
Prierto Bico	7	.	> C	9 6	20	-	ه د	0 0	0 0	0 ;	0 0	<u>ہ</u>	£ 6	, 4
Trinidad and Tobago	1,785	0	0	0	00	9	0	0	0	V 0	-	ý c	1.785	7 85
United Kingdom	5,809	0	189	0	0	0	0	0	0	٥	5	204	6,012	194
Virgin Islands	9 12 0	00	1,916	00	00	00	00	00	868	0 (0	2,215	2,215	7.
Other Western	700	•	5	•	•	>	•	>	>	>	0	0	325	-
Hemisphere	0	0	<u>®</u>	19	0	0	0	13	0	0	4	36	36	-
Other Eastern Hemisphere Subtotal Other	401 31,797	294	172 3,112	97 138	0 (§)	116	o ଡ	o 0	0 605	35 277	11 370	315 4,927	716 36,724	23 1,185
Total Imports	64,658	294	3,365	138	(s)	116	240	459	2,057	277	371	7,317	71,976	2,322
							PAD District IV	stnct IV				}		
Other Canada Subtotal Other	1,481	238 238	87 87	00	ឧឧ	00	00	79 78	ດນ	(a)	88	558 558	2,040	88
Total Imports	1,481	238	87	0	73	O	٥	67	ĸ	(s)	6	558	2,040	99
,			}				PAD District V	stnct V			}	}		
Arab OPEC Alperia	336	٥	٥	0	0	0	0	0	0	0	0	0	386	1 5
b OPEC	399	0	0	0	0	0	0	0	0	0	0	0	333	<u> </u>
Other OPEC					,	,	,							
Ecuador	362	0 0	0 ç	0 0	o (00	00	0 0	0 8	00	0 0	0 20	362	120
Venezuela	, 8 8	0	10	0	0	0	0	0	30	0	è	30	340	110
Subtotal Other OPEC	8,541	٥	42	0	277	0	0	O	80	0	397	795	9,336	301
Other Rolssia	247	c	c	c	c	c	c	c	c	c	c	c	247	α
Впилей	199	0	0	0	φ.	0	0	0	0	0	0	0	199	ω
Canada	237	433	0	0	<u> </u>	Φ.	0	0	0	16	ଚ	909	837	27
Malaysia	ت پ	00	00	0	3 °	0 0	0	0 4	<u>ය</u> අ	00	00	1 28	128 85 5	च (
Netherlands	<u> </u>	0	283	0	0	0	0	0	0 0	0 6	n =	263	28.5	0 00
Netherlands Antilles	0	0	0	0	0	53	0	0	0	0	0	23	53	-
People's Republic of China	0 0	00	528	273	489	0 0	0 0	0 0	00	<i>o</i> c	ဝ ပူ	988	88 8	35
Other Eastern Hemisphere	0	0	202	9.	213	107	0	2 6	225	00	8 8	944	2 2	3 %
Subtotal Other	844	423	969	364	606	144	0	92	274	92	131	3,034	3,879	125
Total Imports	9,785	423	738	364	1,186	144	0	9/	354	16	527	3,829	13,614	439

¹ includes crude oil imported for storage in the Strategic Petroleum Reserve.
2 Includes aviation gasoline, waxes, asphalt, lubricants, natural gasoline, isopentaine, plant condensate, naphthas less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products.

(s) Less than 500 barrels or less than 500 barrels per day.

Note: Totals may not equal sum of components due to independent rounding.

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 18. Exports Of Crude Oil And Petroleum Products By PAD District, July 1983 (Thousand Barrels)

, and the second of the second		Petroleur	Petroleum Administration for Defense Districts	for Defense	Districts	
Sample and the sample	_	=	Ħ	2	>	Total
Grude Oil (including lease condensate) 1	0	346	0	0	4,148	4,494
Liquefied Petroleum Gases	32	742	792	0	125	1,691
Ethane	(s)	53	0	٥	0	73
Propane	19	281	398	0	51	750
Butane	13	431	393	0	74	912
Butane-Propane Mixtures	0	0	0	0	0	0
Finished Motor Gasoline	ო	107	424	(s)	33	999
Naphtha-Type Jet Fuel	0	0	(s)	0	0	(s)
Kerosene-Type Jet Fuel	٥	0	0	٥	37	37
Kerosene Kerosene	-	(S)	<u>(s)</u>	-	(s)	2
Distilate Fuel Oil	79	0	391	0	1,225	1,695
Residual Fuel Oil	(s)	0	844	0	1,950	2,795
Naphtha < 400 Deg. for Petrochem. Feedstock	34	4	101	(s)	φ	146
Other Oils > 400 Deg. for Petrochem. Feedstock	0	29	296	0	-	357
Special Naphthas	က	-	32	(s)	-	33
Lubncants	153	15	369	•	38	577
Waxes	4	*-	20	0	ო	27
Petroleum Coke	22.	91	2,477	-	2,461	5,253
Asphalt	•	2	(s)	(s)	7	5
Miscellaneous Products	2	<u>(s</u>	0)	<u>(8</u>	4	54
Total Product Exports	544	1,022	5,760	S	5,887	13,217
Total Exports	544	1,368	5,760	ιn	10,035	17,711

1 Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territores (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports (s) Less than 500 barrels.

Note Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 19. Exports of Crude Oil and Petroleum Products by Destination, July 1983 (Thousand Berrels)

3, 5, 7 (a) (b) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		O Cade	54 1	Motor	<u>E</u>	ē	80	Naphthas	cants	Waxes	Coke	Asphalt	Other	Total	(Delly Average
1 2 2 2 2 2 2 2 2 2	Argentina	0	-	0	0	0	0	8	5	•	0	3	162	177	9
## Livering Control of the Control o	Australia	00	- ç	.	0	٥;	27,	_	~		103	E	e :	323	9
A Library County A Library C	Bahrain	9 6	א מ		o c	6 c	0 6	00	NI E	00	0 0	0 6		8	e (
Second Color Seco	Belgium & Luxembourg	0	9	0	0	0	0	9 0	37	_) (C) (<u>(</u>)		4. u	<u>.</u>
### Secretary Control of the control	Brazil	٥		0	0	0	0	- 60	-		1)		9	· m
### State 19 19 19 19 19 19 19 1	Canada	346		33	0 0	 (0		20		238	က :	-	1,618	52
### Proposition	China (Talwan)	9 0	2	5 C	.) c	2 eg	<u> </u>	8 5	e e	€	e	€,	8	- (
Cartin	Colombia	0	<u>ო</u>	0	0	0	30	2	2	£	9	9 0	- c	v v	5
Market M	Costa Rica	0	0	0	0	0	0	e e	4	.)	<u>s</u>	1 (1	9	<u> </u>
1 1 1 1 1 1 1 1 1 1	Denmark	00	0 7	00	00	00	00	0	e	E	0 !	0	€:	(6)	3
Continue	Ecuador	0	<u>,</u> 82	424	00	387	0	e)	- *	9	ည် င	o c	e 8	8 8	~ 6
Continue	Egypt	0		0	0	0	0	0	•	2	o 0	0	2	2 -	(E)
### Secretary Control of the control	El Salvador	0 6		0 6	0 (0 4	01	3	۵ :	0	٥	0	E	ო	(2)
### Section 19 1	France	9 C	> •	> c		ə c	0 0	0 0	€		0 9	00	_	(S)	<u>e</u>
	French Pacific Isl	0	- 0	0		0	0	9 0	@	- 0	ş c) (\$	g c	8 6 8	<u>0</u>
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Ghane	Ø :	0	0	0	0	0	0	®	0	0)		€	Œ
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Greece	0 0	rv <u>6</u>	00	0 0	0	00	0	e	0	75	Ö	©	12	Q.
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Guines	5 6	7	-	5 C	- C	-	0 0	~	C	00	ρ c	e E	5 •	α [
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Honduras	0	_	0	0	0	0	· @	- ~	0	9 0	• 0) (8)	- α	9
(a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Hong Kong	0	÷-	0	0	O.	0	0	9		0	Đ	.	(V)	Œ
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		o c		O 0	ρ α	0	0 0	0	e	E E	o į	0 (©	-	<u> </u>
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(a) (b) (c) (c) (c) (d) (e) (e) (e) (fig.	Jenes	5 C	<u>,</u>	o c	> c	0 4	212	e)	e .	0 (€;			3 33	~ 6
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(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Majavaja	> 0	Œ	0	0		0	-	Œ	> C	> c	5 C	<u> </u>	•	9 (
(a) (b) (c) (c) (c) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	Mexico	0	584	· «	37	e -	• 0	·-	129	. 6	, <u>e</u>	0	-	950	38
(a) (b) (c) (c) (c) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	Netherlands	0	0	0	0	678	0	KD.	88	®	903	(e)	2	1,698	55
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	Rep. of South Africa	0 0	0 6	0 0	00	9	e)	€6	₽ 4	€8	22	e	4 4	36	- (g)

Table 19. Exports of Crude Oil and Petroleum Products by Destination, July 1983 (Thousand Barrels) (continued)

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	•					- CERL				<u> </u>
Crude LPG Motor Fu	Fuel Fuel	Puel Col	Naphthas	cants	Waxes	leum Coke	Asphalt	Other	Total	(Dally Average)
0 0 0	0	0	(s) 0	2	(8)	(8)	(8)	60	9	(8)
0 (s) 0	0	0 632		(8)	8	1,037	<u>(s)</u>	73	1,743	56
0 0	0	0		-	0	4	0	(8)	17	-
0 0	0	0	0 0	•	(83	0	(9)	8	ო
O (s) O	0	0	(e) (c)	(8)	0	8	0		98	ო
0 0	0	0	0	17	9	0	0		~	•
0 + 0	0	0	0	•	9	0	9	0	-	9
0 0	0	0	0	®	<u>s</u>	0	0	16	16	٧
0 (s) 0	0	0	0	œ	0	29	0	9	65	Ø
0 8	0	-	0	55	<u>s</u>	0	9	•	27	•
0 0	P	0	0	\$	0	0	0	-	4	•
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o (s) o	0	0	0	(s)	<u>(s)</u>	9	0	***	1 00	ო
2,018 22 0	0	0			0	0	0	0	2,384	77
o (s) o	<u>s</u>				8	75	0	CV	84	ო
	0				0	52	0	©	25	γ
9	9				_	89	9	17	748	24
1,691	37 1,				27	5,253	ເດ	230	17,711	571
2,018 (s) 0 0 (s) 0 2,018 (22 0 0 (s) 0 554 60 1 4,494 1,691 568	(s) (s) 1,6	(s)	00040000	(e) (c) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	(s) (c) 0 6 6 119 772	(s) (c) 0 0 6 6 178	(s)	(s) (s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(s) (s) 94 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

1 Exports of crude oil are prohibited by law However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports (s) Less than 500 barrels or less than 500 barrels per day. Note Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation,

Table 26. Stocks of Crude Oil and Petroleum Products By PAD District, July 1983 (Thousand Barrels)

	United	102,863 191,857 22,245 340,672 25,029 682,666	321,265 318,475 105,539 6,255 751,534	933 3,517 1,430 976 6,856	2,861 3,101 1,917 7,879	127 2 255 103 487	11,334 86,100 12,020 3,045 112,499	941 2,839 1,520
PAD	V Vest	24,407 29,531 1,904 0 25,029 80,871	65,230 23,214 4,253 142 92,839	28 0 5 54 57	00000	00000	623 1,641 0 115 2,379	000
PAD	Dist IV Mt	1,942 9,984 1,372 0 0 13,298	11,729 2,506 2,726 238 17,199	25 0 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 466 21 487	0 0 2 2 2 2 2 3	278 75 36 134 523	000
	Total	46,877 89,344 17,317 340,672 0	141,353 87,925 36,846 4,281 270,405	720 2,387 831 710 4,648	0 1,974 2,443 1,196 5,613	122 2 255 70 449	7,168 54,575 3,089 2,127 66,959	936 2,047 292
	New	111111	1,471	8 1 1	ا ا أ	0 0	243	0
ĭ E	No La.	11111	4,355 	- 181		4	8 1 1	0
PAD District III	Coast N	11111	43,464	158	0 00 1	0 1	2,258 	0 11
	Texas Gulf Coast		82,986 1,278 	513	0 1 1 0 1	74	4,711	936
	Texas Inland	11111	9.077 1,871	۱ ا ه ا	0 16 1	~ B B	157	0
-	Total	14,737 61,701 1,596 0 0 78,034	62,490 90,582 33,837 1,380 188,289	162 1,081 572 179 1,994	0 887 192 694 1,773	လဝဝထ <u>င်</u>	2,763 28,098 6,080 498 37,439	5 792 1,228
	Okla , Kans , Mo	111111	14,655	123		- 4	615	0
PAD District II	Minn., Wisc., H	11111	6,530	5 1 1	0 %	0 %	100	11
PAD	III. Ky.	111111	40,218	1 1 23	9, 1, 0	4 -	177,1	N 1
	Appa- lachi- an #2	11111	1,087	0 0	0 0	0 0	277	11
	Total	14,900 1,297 56 0 0 0	40,463 114,248 27,877 214 182,802	18 49 16 83	00000	00000	502 1,711 2,815 171 5,199	000
PAD District 1	Appa- lachı- an #1	111111	2,719	0 =	0 %	0 0	6 08 	0
PAC	East Coast	11111	37,744	1 1 1	0 0		493	11
	Commodity	Crude Oil (incl. lease condensate) Refinery	Total Stocks, All Oils (excl. Crude Oil) Refinery	Natural Gasoline and Isopentane Refinery	Unfractionated Stream Refinery	Plant Condensate Refinery	Liquefied Petroleum Gases Refinery	Ethane Refinery

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, July 1983 (Thousand Barrels) (continued)

East Appen Fig. March Cotast Cotast March		PA	PAD Distnet I	_		PA	PAD District II	=				PAD Distnot III	Inct 111	1		PAD	PAD	
Second cost		East	Appa- lachi- an #1	Total	Appa- lachi- an #2	-	Minn . Wisc., Daks.	Okta. Kans., Mo.	Total	Texas			No La., Ark	New Mexico		Pocky Mt	V West Coast	United
Second control Liber Second control Liber	Gas Processing Plant	١	١	00	0	ี 8	0	0	22 2,047	es	- 1	0	0	۳ ا	3,282	VIII VIII	00	30 5,330
15 15 15 15 15 15 15 15	ropane for Petrochemical Feedstock Us Reifnery Bulk Terminal Pipeline Pipeline Natural Gas Processing Plant Total		0 0	350008		1 1 1 1 1 1 1 1 1 1 1 1		- 10	45 0 0 0 45 134		, II I	0 0	11 1		တ္တဝဝတ္က	00000	00000	208 0 0 208
Use	Propane For Other Uses Refinery Bulk Terninal Pipeline Natural Gas Processing Plant Total	8 8	ا ا ا ₈	414 1,493 2,732 118 4,757		1,163	1 1 23	119	1,436 17,670 2,849 189 22,144	14 1496	1,765	372	4 6	127	2,763 26,117 1,172 1,049 31,101	137 75 1 95 308	107 390 0 93 590	4,857 45,745 6,754 1,544 58,900
48 3 51 229 235 46 232 742 25 1,303 686 3 10 2,027 109 300 11 2 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 283 21 2 283 21 2 28 25 21 2 28 25 21 2 28 25 21 2 28 25 21 2 28 25 21 2 28 25 21 2 28 25 21 2 28 25 21 2 28 25 21 2 28 25 21 2 28 25 21 2 21 2	e ant	0 0		00000					W O O O W		<u> </u>			0 0	<u> 40004</u>	00000	00000	20002
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Butane For Other Uses Refinery	84 1.2 1	"	51 218 83 51 403	8 1	88 4	4 1 1	11 23	742 3,787 819 94 5,442	25	56. 1 32 1	88 88	e 1 L	5 ₈₆	2,027 12,683 328 525 15,563	109 0 32 141	300 851 1,165	3,229 17,539 1,230 716 22,714
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	urane-Propane Mixtures For Petro. Feed Refinery			00000	.				00000					0 0	00000	00000	00000	00000
	utane-Propane Mixtures For Other Uses Refinery Bulk Terminal Prpeline Natural Gas Processing Plant	11-1		00000					296 20 20 319			ी ह्य			28 78 624 14 744	R O O 4 O	157 153 0 6 316	193 527 644 24 1,388

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, July 1983 (Thousand Barrels) (continued)

Ethane-Propane Mixtures Refinery Natural Gas Processing Plant Refinery Bulk Terminal Refinery	Appa- lach- an #2 0 0 0	Ind.			Total Te			Ž		Total	3 4	> 3	7	States
	+ 1	1	\dashv		\dashv	inland	Coast Co.	Coast Ark	Mexico	-	M		12 N	\rightarrow
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	11	11	11		534	ļ	1 1	i (Ş	145	٥		0 8
95	0	-	N 	<u> </u>	2,939	8	8	\$ 1	•		726	· 83	306	
	95 0	94	0	0	94	-	6	o)	0	٥ ,	50	-0	٠, -	ωO
Bulk Terminal		11	0		000	0	6	0	, 0	0	00;	00+		م ۵ در
	92	ţ	ł	1	\$	ŧ	ļ	1		1	2	-		1
777.0	o 639 43	2.525	126	1,138	3,832			5,225	175		13,636		5,152	N.
1,708 25	₩.	3,027	9 253		3,521 5,412	V		1,311 6,813	204 34		8,743 18,313 8,736	908 901 1	3,933 10,740 5,225	2 G A
1,978 293		•	402	1,262 4,277 1	4,586 17,351	597 2,592 3	5,833 30,536	2,2/4 15,623	445	232 4			25,110	10
ne Blending Components	4.630	4 830	697	1.587	7.149	1.390	9,674	6,587	131	121	17,903	1,734	8,431	Ξ.
4,303	11		1 1		123 123	11	1.1	1 1	1.1	1 1	359 57	00	-	202
cessing Plant 0 0	0 0	o 	0	o l	0 7,523	o 1	0	0	0	· •	0 18,319	1,734	0 8,533	၁ ဗ္ဗ
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Apailol Gasonic Sciences 0 0 Refinery 0 0 0 Bellinery 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	25 I	١	%	න	8	<u> </u>	<u>e</u> 1	١	1	300	000		300
Pipeline	000	1	0	6 	00	0	0	6	o	0	300	000		0 5
1	1	1	1	l	508	١	1	I	1	l	5 25	5		2
Gasoline 5.037 154	5,191 99	5,789	1,333	2,948	10,169	1,828	9,770	5,025	660	217	17,500	1,863	∞, č	8,321
	39,653 —	1	1 1	1-1	30,467 16,406	1 1	!	1	 		17,245	1,428	, N	2,548

See footnotes at end of table.

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, July 1983 (Thousand Barrels) (continued)

	PA	PAD District 1	_		PAI	PAD District II		-			PAD District III	ııct III			PAD Dist IV	PAD Dist	1
Commodity	East Coast	Appa- lach- an #1	Total	Appa- lachi- an #2	III. Ky	Minn , Wisc , Daks.	Okla, Kans, Mo	Total	Texas	Texas Gulf Coast	La. Gulf	No. La., Ark	New Mexico	Total		v West Coast	States
Total Finished Motor Gasoline Natural Gas Processing Plant	1 34	١	24 59,643	١	٥	0	0	0 57,042	0	١	٥	٥	٥	046,770	10	21,663	34 189,813
Finished Leaded Motor Gasoline Refinery	2,232	1 1 48	2,310 19,958 9,073 14 31,355	2	2,764	874	1,795	5,497 16,100 9,207 0 30,804	882	4,469	2,209	376	133	8,069 6,489 8,115 0	1,169 901 891 8	3,594 5,284 1,240 0	20,639 48,732 28,526 22 97,919
Finished Unleaded Motor Gasoline Refinery	2,805	9 1 1	2,881 19,695 5,702 10 28,288	35.	3,025	459	1,153	4,672 14,367 7,199 0 26,238	946	5,301	2,816	88	8 III	9,431 5,536 9,130 0 24,097	694 493 537 1,726	4,727 5,510 1,308 0 0	22,405 45,601 23,876 12 91,894
Finished Aviation Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant	1 0	111	47 459 0 0 506	0 0	44 0	0 0		175 399 146 0 720	1 1 1 2	349	80	0 0	0 0	482 81 13 605	£ 6000 E	207 327 0 0 534	954 1,286 159 29 2,428
Naphtha-Type Jet Fuel Refinery Bulk Terminal	274	g 	304 258 115 677	0	789	<u></u>	566	1,116 984 222 2,322	11 28	724	112	99 1 1	173	2,036 201 467 2,704	259 6 103 368	852 416 494 1,762	4,567 1,865 1,401 7,833
Kerosene-Type Jet Fuel Refinery	1,192	111	1,192 4,484 3,560 9,236	8	11 1 1 1	88	178	1,414 4,568 1,909 7,891	275	2,989	1,820 	-	¥ 1 1 1	5,165 2,253 2,957 10,375	352 234 133 719	3,727 1,552 358 5,637	11,850 13,091 8,917 33,858
Kerosene Refinery	347	11 1	429 2,914 333 0 3,676		14 1	8 1 1	£	634 944 167 0 1,745	4 1 1	935	527	6 0	8 -	1,598 830 274 2,704	42009	292 81 0 0 373	2,957 4,791 774 2 8,524
Distillate Fuel Oils Refinery	6,176	1 286	6,462 38,167 5,276	8 11	5,414	1,480	2,275	9,252 16,394 7,993	1,146	10,283	4,485	88 1	529	17,025 6,385 9,040	1,826 677 538	4,985 5,178 839	39,550 66,801 24,686

Table 20. Stocks of Crude Oli and Petroleum Products By PAD District, July 1983 (Thousand Barrels) (continued)

	A _A	PAD District 1			PA	PAD District II					PAD District III	ici III		-	<u></u>	PAD	
Commodity	East	Appa- lachi- an #1	Total	Appa- lachi- an #2	Ind., III. Ky	Minn. Wisc., Daks.	Okla , Gans , Mo.	Total	Texas	Texas Gulf Coast	La. Gulf N Coast	No. La., Ark.	New	Total		Oist V West Coast	United
Distillate Fuel Oils Natural Gas Processing Plant	١	١	0 20,905	0	1	0	١	33,639	0	, 0	o 	0	0	32,450	3,041	. 11,002	131,037
Residual Fuel Oils Refinery	5. 1 1	<u>₹</u> 1	4,334 20,979 0 25,313	64	1,839	111 205	88	2,332 1,412 0 3,744	5	4,618	2,707	<u> </u>	8	7,707 6,048 1 13,756	497 0 0 497	6,521 2,028 9 8,558	21,391 30,467 10 51,868
Naphtha < 400 Deg. Petro. Feedstock Refinery	43	00	£ £	00	165 165	00	57	22.22	139 139	943 943	614 614	55 55	00	1,751	00	210	2,226 2,226
Other Oils > 400 Deg. Petro. Feedstock Refinery	n n	00	ឧស	00	ଶ ଶ	00		30 93	224	1,245	244 244	00	00	1,713	0 0	482	2,232
Special Naphthas Refinery Bulk Terminal	8 0	4 °	63 781 0 844		02 1	9 9	9 1	315 296 0 611	110	1,233	55	146	0 0	1,465 67 110 1,642	8 1 0 0 8 1	295 44 0 339	2,156 1,188 110 3,454
Lubricants Refinery Bulk Terrunal Total	951	957	1,908 1,271 3,179	11	702	0	255 	957 1,289 2,246	4	3,115	857	548	0	4,560 255 4,815	63 2 63	612 705 1,317	8,100 3,522 11,622
Waxes Refinery Bulk Temmal Pipeline Natural Gas Processing Plant Total	17 0	139	156 0 0 156	0 0	8 0		6 0	95 0 0 0 0 0 0	8 1 1 1	1 274	1 1 62	8	0 0	556 0 0 0 556	-000-	e7 0 0 67	887 0 0 0 887
Petroleum Coke Refinery Total	88 83 83	00	683 683	00	791 791	153 153	268 268	1,212 1,212	n n	46 46	477	150 150	00	678 678	140	2,104	4,817
Asphalt and Road Oil Flefinery Bulk Terminal	1,623	4 1 1	1,667 3,376 5,043	£ 1 1	3,419	1,958	26.11	6,749 3,450 10,199	- 1	521	8 1	787	253	2,953 438 3,391	1,862 76 1,938	2,082 260 2,342	15,313 7,600 22,913
Miscellaneous Products Refinery Bulk Terminal Pipeline Processing Plant Indian Indian Processing Plant Indian Indi	248	۱۱ ا ا	279 62 3 0	- 1 1	١١١ و	t	8 0	85 62 27 1 1 57	8 1 1 8	328	8 1	å	0 0	470 45 174 37 726	24 0 0 1 25	214 86 0 300	1,072 255 204 39 1,570
Total Stocks, All Olis	I ,	I	199,055	I	ı	1	1	266,323	1	ı	l	I	1	764,615		30,497 173,710	1,434,200

1 includes 33,879 thousand barrels of domestic crude oil.
Sources: See Explanatory Notes on Data Collection and Estimation.
Not Applicable.

Table 21. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge Between PAD Districts, July 1983 (Thousand Barrels)

		From I to			From II to	II to			From III to	ę.		Ē }	From IV to		From V to	ر د د	From V to	< to
Commodity	=	=	>	_	111	2	>	_	=		>	=	=	^	_	=	=	≥
													8					
Crude Oil (Tanker and Barge only)	0	0	0	0	0	0	0	416	1,931	0	0	0	0	0	4,490	۵	17,694	0
Defroloum Provincie	8 113	204	0	3,388	5.586	2,171	348	79,895	27,220	0	2,124	1,958	348	1,262	0	0	ω,	0
Natural Gasoline and Isonentane		0	0	0	76	0	0	0	220	0	0	ιΩ	0	0	0	0	0	0
:	0	0	0	0	633	0	0	0	865	0	0	629	348	0	0	0	0	0
Plant Condensate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
iniefied Petroleum Gases	0	0	0	462	1,971	45	0	1,198	3,868	0	0	241	0	0	0	0	Φ (0 (
Unfinished Oils	0	o	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	Φ (
Motor Gasoline Blending Components	0	0	0	0	0	0	0	0	1,239	0	0	0	0	0	0	0	0	0
Aviation Gasoline Blending Components	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (
Finished Motor Gasoline	5.995	0	0	1,924	1,677	1,369	정	51,358	11,426	0	1,128	909	0	857	0	φ,	۰ ۵	0 (
Finshed Leaded Motor Gasoline	3,400		0	798	868	776	0	20,546	5,953	0	611	370	0	595	0	0	0	Φ,
Finished Unleaded Motor Gasoline	2.595		٥	1,126	779	593	8	30,812	5,473	0	517	536	0	262	0	0	0	0
Finehed Aviation Gasoline	12		0	0	٥	24	0	206	242	0	0	0	0	0	0	0	0	0
Nachtba-Type Jet Firel	147	0	0	0	133	0	0	716	136	0	266	7	0	0	0	Φ.	0	0
Kernsene-Trop let Filel	155	0	0	194	63	230	0	8,677	1,925	0	183	0	0	141	0	0	0	0
Korosopa	0	0	0	۵	0	0	0	194	38	0	0	0	0	0	0	0	0	0
Detilate Fire Oil	1.742	0	0	290	625	203	286	14,106	5,546	0	326	376	0	264	0	0	0	0
Residual Fuel Oil		6	0	47	287	0	0	2,149	8	0	0	0	0	0	0	0	20	0
Naphtha and Other Oils for Petro	!	•	•	•	•	•	c	ç	a	c	c	c	c	•	c	c	C	C
Feedstock	17	> (> 0	ָי כ		0	o c	22.5	ว นุ	0 0	0 0	· -	o C	o c	· c	• •	0	C
Special Naphthas	0	0	>	2		> 1) (022	7 6	0	,	•	0					
Lubricants	7	8	0	28		•	•	999	400	5 (- (0	0	0	0 0	0 0	•	0 0
- 1	0	0	0	0		0	0	-	Þ	>	S	5	> (، د	> (o (0	0 0
	0	0	0	266		0	0	178	737	0	0	φ	0	0	•	> (o (o (
	88	54	0	153	115	0	0	162	79	0	0	0	0	0	D	•	5	>
Total All Products	8,113	204	٥	3,388	5,586	2,171	348	80,311	29,151	o	2,124	1,958	348	1,262	4,490	٥	17,702	0

Sources. See Explanatory Notes on Data Collection and Estimation

Table 22. Movements of Petroleum Products by Pipeline between PAD Districts, July 1983 (Thousand Barrels)

Columbodity		From J to		From II to		ĺ	From III to	II to			בייסוו וע נס	_	From V to	g.
	=	=	_	=	2	-	=	2	>	=	H	>	■	2
Natural Gasoline and Isopentane	0	٥	٥	76	0	0	220	0	0	S		0	0	0
Unfractionated Stream	0	0	0	639	0	0	865	o	0	629	348	0	0	0
***************************************	0	0	0	۵	٥	0	0	0	0			0	0	0
Liquefied Petroleum Gases	0	0	462	1,971	45		3,868	0	0			0	0	0
Motor Gasoline Blending Components	0	0	0	0	0		1,239	٥	0			٥	0	0
Awation Gasoline Blending Components	0	0	0		0		0	0	0				0	0
Finished Motor Gasoline	4,392	0	1,588		1,369		10,433	0	884				0	0
Finished Leaded Motor Gasoline	2,450	٥	654		776		5,521	0	470				0	0
Finished Unleaded Motor Gasoline	1,942	0	934		593		4,912	٥	414				0	0
Finished Awaton Gasoline	7	0	0		24		195	0	0				0	0
Naphtha-Type Jet Fuel	0	0	0		0		136	0	266				0	0
Kerosene-Type Jet Fuel	74	0	187		530		1,653	0	183				o	0
Kerosene	0	٥	0		0		38	0	0				0	0
Distillate Fuel Oil	1,241	0	250		203		4,375	0	326		0	564	0	0
Residual Fuel Oil	0	0	0		0		0	0	0				0	0
Miscellaneous Products	٥	0	44		0		0	0	٥				0	0
Total	5,719	0	2,631		2,171		23,352	0	1,689	•		_	0	0

Source See Explanatory Notes on Data Collection and Estimation.

Table 23. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, July 1983 (Thousand Barrels)

	Щ	From I to		i.	From II to				From III to	₽		-] =	From V to	
Commodity	=	=	>	-	E	>	-	New Eng	Cent	Low	=	>	-	=	=
Crude Oil	0	0	0	O	0	0	416	0	416	0	1,931	0	4,490	O	17,694
Petroleum Products	2,394	204	0	757	402	348	22,352	1,568	4,265	16,519	3,868	435	0	0	ω
Liquefied Petroleum Gases	0	0	0	0	0	0	171	0	0	17	0	0	۵	0	0
Unfinished Oils		0	0	O	0	0	0	0	0	0	0	0	0	0	0
Motor Gasoline Blending Components		0	0	Φ	0	0	0	0	0	0	0	0	0	0	٥
Finished Motor Gasoline		Ø	0	336	0	82	11,738	464	1,586	9,688	993	244	0	0	0
Finished Avation Gasoline		0	0	0	0	0	157	83	없	74	47	0	0	0	٥
Naphtha-Type Jet Fuel	147	0	0	٥	0	0	395	0	0	395	0	0	0	0	0
Kerosene-Type Jet Fuel	84	0	0	7	0	0	3,246	314	83 83	2,109	272	0	0	0	٥
Kerosene	0	0	0	0	0	0	38	0	18	16	0	Ф	0	0	0
Distillate Fuel Oil	501	0	0	4	0	286	3,171	553	300	2,318	1,171	0	0	0	٥
Residual Fuel Oil	0	8	0	47	287	٥	2,149	508	823	1,081	23	0	0	0	80
Naphtha and Other Oils for Petro. Feed. Use	17	0	0	0	0	0	ଷ	0	0	83	œ	0	0	0	0
Special Naphthas	0	0	0	5	0	0	x	0	119	107	145	0	0	0	0
Lubncants	^	8	0	83	0	0	689	0	395	294	394	191	0	0	0
Waxes	0	0	0	0	0	0	7	0	~	0	0	0	0	0	0
Asphalt and Road Oil	0	0	0	266	0	0	178	0	O	169	737	0	٥	0	0
Miscellaneous Products	88	\$	0	6	115	٥	162	0	\$	8	79	0	0	0	0
Total	2,394	202	0	757	402	848	22,768	1,568	4,681	16,519	5,799	435	4,490	0	17,702
						Ì			ĺ						

Source: See Explanatory Notes on Data Collection and Estimation.

Table 24. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge Between PAD Districts, July 1983 (Thousand Barnels)

	P.A	P.A.D. District (PA	P.A.D. District II	3 1	PA	P.A.D. Distnet (f)		PA	P.A.D. District IV	≥	P.A.	P.A.D. District V	>
Commodity	Receipts into PADD I	Ship- ments from PADD I	Net Receipts PADD I	Receipts into PADD II	Ship- ments from PADD II	Net Recepts PADD II	Receipts into PADD III	Ship- ments from PADD	Net Receipts PADD III	Receipts into PADD IV	Ship- ments from PADD	Net Receipts PADD IV	Receipts into PADD V	Ship- ments from PADD V	Net Receipts PADD V
Crude Oil (Tanker and Barge only)	4,906	0	4,906	1,931	0	1,931	17,694	2,347	15,347	0	0	0	0	22,184	-22,184
Petroleum Products	83,283	8,317	74,966	37,291	11,493	25,798	6,146	109,239	109,239 -103,093	2,171	3,568	-1,397	3,734	ac c	3,726
Unfractionated Stream	0	0	0	1,524	63	885	987	865	1 22	0	1,007	-1,007	0	0	0
Plant Condensate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Liquefied Petroleum Gases	1,560	٥ ,	1,660	4,109	2,478	<u> </u>	1,971	5,066	3,095	45	241	-196	0 (0 (0 (
Motor Gasoline Blending Components	n 0	0	n 0	1.239	n 0	1,239	0	1.239	-1239	0	00	0	0	o c	ə c
Aviation Gasoline Blending Components	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Finished Motor Gasoline	53,282		47,287	18,027	5,032	12,995	1,677	63,912		1,369	1,463	46-	2,047	٥	2,047
Finished Leaded Motor Gasoline	21,344	3,400	17,944	9,723	2,472	7,251	868	27,110		776	965	-189	1,206	0	1,206
Finished Unleaded Motor Gasoline	31,938		29,343	8,304	2,560	5,744	779	36,802		293	498	92	841	0	<u>¥</u>
Finished Aviation Gasoline	206		\$	25	24	230	0	448		75	0	24	0	0	0
Naphtha-Type Jet Fuel	716		569	354	33	8	133	1,118	-985	C)	71	-71	266	0	266
Kerosene-Type Jet Fuel	8,871		8,716	2,080	787	1,293	æ	10,785	-10,722	230	141	389		0	354
Kerosene	194		194	88	0	88	0	232	-235	0	0	0		0	0
Distillate Fuel Oil	14,396	1,742	12,654	7,664	1,404	6,260	625	20,008	-19,383	g	640	437	906	0	906
Residual Fuel Oil	2,196		2,106	ដ	334	-312	382	2,171	-1,786	0	0	0	0	∞	ዋ
Naphtha and Other Oils for Petro.															
Feedstock Use	ଷ	17	12	53	0	53	0	37	-37	0	0	0	0	0	0
Special Naphthas	241	0	241	145	15	130	0	371	-371	0	0	0	0	o	0
Lubricants	717	67	650	40	88	373	8	1,274	-1,214	0	0	0	191	0	191
Waxes	7	0	7	0	0	0	0	7	-7	0	Φ	0	0	0	0
Asphalt and Road Oil	444	0	444	737	266	471	0	915	-915	0	0	0	۵	0	0
Miscellaneous Products	315	92	223	117	268	-151	169	241	-72	0	O	0	0	0	0
Total All Products	88,189	8,317	79,872	39,222	11,493	27,729	23,840	111,586	23,840 111,586 -87,746	2,171	3,568	-1,397	3,734	22,192	22,192 -18,458

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 25, Production of Residual Fuel Oil By Sulfur Content, July 1983 (Thousand Barrels)

	United	tates	23,902 2,548	8,255
	PAD Dist V	-	8,748 2 1,062	[
	PAD I		359 48	202 203
		\dashv	10,061	6,303
	New	Nexico	10	32.0
	= 4	-	261 90	96
	La. No L	\exists	2,149 40	1,660
	Texas	Coast	341	4.49
	Texas	mario	600 45 481	72
	Total		1,952 176 460	1,316
	Okla., Kans.,	Wo	335 111 150	74
PAD Dietrort	Minn. Wisc.	Daks	216 0	216
ď	nd.		1,339 65 324	950
	Appala- chian	#2	62 14 0 62	92
=	Total		2,782 736 1,890	3 156 tation
AD Distric	Appala- st chian	#	23 82	23 d Estimati
/d	East		4, ←,	133 ection and
	Commodity		Residual Fuel OII 0.00 to 0.30% Suffur 0.31 of 1.00% Suffur Greater Then 4 now Suffur	Source: See Explanatory Notes on Data Collection and Estim

Table 26. Stocks of Residual Fuel Oil By Sulfur Content, July 1983 (Thousand Barrels)

	United	2,073	7,806 11,807	11,512 14,303 25,815
	PAD Dist. V West	Coast 773	2,077	3,671
	Pat. IV Rocky	Mt 131	97 6	5 69 Z
	Total	5 8 5	3,060	4,841 2,950 7,791
	New	5	. 11	6 <u>6</u>
trice III	:		24 1	811
PAD Dietrice B	a go	- ++	1 697	1,896
	Texas	745 I	1,626	2,750
	Texas	8 11	g	2
	Total	194 172	724 545 1,269	1,414 789 2,203
=	Okla, Kans,	1.57	1 1 30	8 11
PAD District	Minn., Wisc., Daks	0	° 11	502
PA	ii. Ky.	137	8 11	1,153
	Appala- chian #2	0	1 I	 4
	Total	570 4,241 4,811	2,447 7,588 10,035	1,317 9,150 10,467
PAD District	Appala- chian #1	4	η ω	8 11
2	East Appela- Coast chian #1	1 1 230	2,442	1,261
	Commodity	Residual Fuel Oil - 0.00 to 0.30% Sulfur Refinery Bulk Terminal Total	Residual Fuel Oil – 0.31 to 1.00% Sulfur Refinery Bulk Terminal Total	Residual Fuel OII — Greater than 1.00% Sulfur Retiney — Bulk Terminal — Total — Total — — — — — — — — — — — — — — — — — — —

Sources: See Explanatory Notes on Data Collection and Estimation

— Not Applicable

Table 27. Movements of Residual Fuel Oil by Tanker and Barge Between PAD Districts, By Sulfur Content, July 1983 (Thousand Barrels)

Commodite.	From I to	0		From II to				From III to	E to			"	From V to	
Airparingo	=	>	-	8	>	_	New	Cent	Low	=	>	-	=	
Residual Fuel Oil 0.00 to 0.30% Suffur 0.31 to 1.00% Suffur Greater Than 1.00% Suffur	8000	0000	44 63	287 0 0 287	0000	2,149 0 615 1,534	209	859 0 197 662	1,081 0 209 872	_ สออส	0000	0000		•
Source: See Explanatory Notes on Data Collection	tion and Estimation	8					۱		315	8	-	Þ	0	

Table 28. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, July 1983 (Thousand Barrels)

		Residua	al Fuel Oil	
Country	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1 00%	Total
Arab OPEC				
Algeria	351	0	^	054
	0	0	0	351
Iraq	498	0	-	0
Kuwait	0	•	0	498
Libya	•	0	0	0
Qatar	0	0	0	0
Saudi Arabia	0	0	0	0
United Arab Emirates	0 849	0 0	0	0 849
Other OPEC				
Ecuador	0	0	129	129
Gabon	Ö	0	0	129
Indonesia	505	75	5	584
	0	0	0	504 0
lian	0	0	0	_
Nigeria	-	•		0 747
Subtotal Other OPEC	1,175 1,680	23 97	2,519 2,652	3,717 4,430
Other				
Angola	0	305	0	305
Australia	Ö	0	ŏ	0
Bahamas	477	35	372	883
Bolivia	0	0	0	0
Brazil	336	ŏ	0	336
	0	0	0	
Brunel	•	780	122	1 004
Canada	162			1,084
Congo	0	0	0	0
Egypt	0	0	0	0
France	0	0	0	0
Ghana	0	0	0	0
Liberia	0	0	0	0
Malaysia	0	11	32	43
Mexico	9	0	206	215
Netherlands	0	0	0	0
Netherlands Antilles	0	336	3,218	3,554
Norway	0	0	0	0
Oman	0	0	0	0
People's Republic of China	0	0	0	0
Peru	221	755	0	976
Puerto Rico	0	0	0	0
Romania	0	0	0	0
Spain	0	0	0	0
Syria	0	Ó	0	0
Trinidad	23	Ö	519	542
Tunisia	ō	Ŏ	0	Õ
United Kingdom	ŏ	286	Ö	286
Virgin Islands	1,144	1,683	1,035	3,863
	` ^	. ^	1,000	0,000
Yugoslavia Zaire	0	0	ŏ	ŏ
Arab OPEC				
Other Western Hemisphere	367	758	567	1,692
Other Eastern Hemisphere	544	1,353	220	2,117
Subtotal Other	3,284	6,302	6,290	16,875
otal Imports	5,813	6,399	8,942	21,154

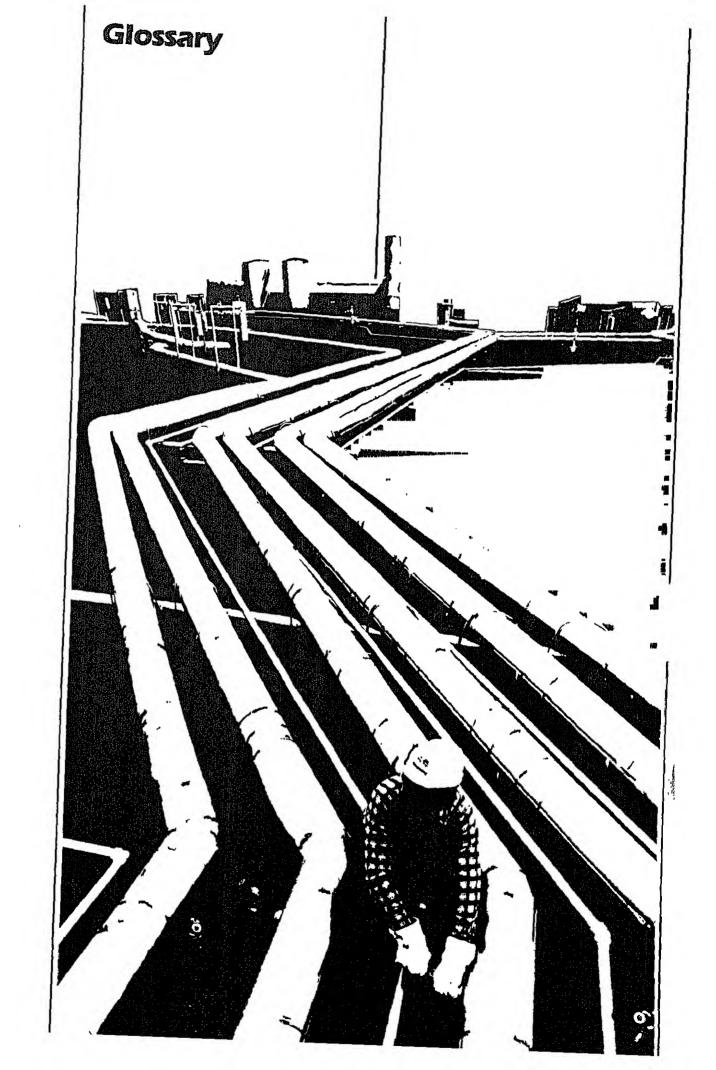
⁽s) Less than 500 barrels. Note: Total may not equal sum of components due to independent rounding, Sources: See Explanatory Notes on Data Collection and Estimation.

Table 29. Imports of Residual Fuel Oil by Sulfur Content by State of Entry, July 1983 (Thousand Barrels)

		Residu	al Fuel Oil	
State	0 00 to 0 30%	0.31 to 1.00%	Greater Than 1 00%	Total
PAD District I	3,927	5,808	8,458	18,193
Connecticut	544	0	0	544
Delaware	0	0	139	139
Florida	0	993	1,545	2,538
Georgia	0	0	298	298
Maine	Ō	0	484	484
Maryland	Ō	0	203	203
Massachusetts	Ō	643	1,511	2,154
New Hampshire	Ö	0	447	447
New Jersey	283	1,075	1,644	3,002
New York	3,075	2,214	1,171	6,461
Pennsylvania	23	883	225	1,131
Ahode Island	0	0	103	103
South Carolina	Ö	ō	107	107
Vermont ,	2	0	0	2
Virginia	ō	Ö	579	579
AD District II	160	349	36	545
Illinois	0	159	0	159
Michigan	160	175	0	336
Minnesota	0	0	7	7
North Dakota , ,	0	0	29	29
Ohlo	0	14	0	14
AD District III	1,724	0	333	2,057
Louisiana	298	0	6	304
Texas	1,426	0	327	1,753
AD District IV	0	0	5	5
Montana	0	0	5	5
AD District V	1	242	111	354
California	(S)	0	\5	6
Hawaii	1	242	105	348
II PAD Districts	5,813	6,399	8,942	21,154

(s) Less than 500 barrels

Note: Total may not equal sum of components due to independent rounding Sources. See Explanatory Notes on Data Collection and Estimation.



Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH-(CH)n-OH. *Alcohol* includes methanol and ethanol.

Alkylation. A refinery process for chemically combining isoparaffin with olefin hydrocarbons. The product, alkylate, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

Deg API =
$$\frac{141.5}{\text{sp gr } 60\text{F}/60\text{F}}$$
 - 131.5

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene.

Asphalt. A dark-brown-to-black cement-like material, containing bitumens as the predominant constituents, obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. The conversion factor for asphalt is 5.5 barrels of 42 U.S. gallons per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation gasoline.

Aviation Gasoline, Finished. All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G-5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in most statistical reports. Factors for converting petroleum coke, asphalt and wax to barrels are given in the definitions for these products.

Barrels per Calendar Day. The maximum number of barrels of input that can be processed in a twenty-four hour period after making allowances for the following limitations: downstream limitations, environmental constraints, types and grades of inputs, planned and unplanned downtime, and types and grades of products.

Barrels Per Stream Day. The amount a unit can process running at full capacity under optimal crude and product state conditions.

Bi-metallic. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of two metals (e.g., platinum, rhenium).

Butane. A normally gaseous paraffinic hydrocarbon, C4H10. It is extracted from natural gas or refinery gas streams. Butane is covered by ASTM Specification D1835 and Gas Processors Association Specification for commercial butane.

Isobutane. A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees F. This classification includes mixtures of gases that contain 80 percent liquid volume or more isobutane. It is extracted from natural gas and refinery gas streams.

Normal Butane. A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that boils at a temperature of 31.1 degrees F. This classification includes mixtures of gases that contain 80 percent or more normal butane.

Other Butanes. All butanes not included as normal butane or isobutane.

Butane-Propane Mixtures. Mixtures consisting exclusively of butane and propane that conform to ASTM Specification D1835 and Gas Processors Association Specification for commercial butane-propane mixtures. They are extracted from natural gas and refinery gas streams.

Butylene. An olefinic hydrocarbon, C4H8, recovered from refinery processes.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil.

Catalytic Hydrocracking. A refining process for converting middle bolling or residual material to high-octane gasoline, reformer charge stock, let fuel and/or high grade fuel oil. Hydrocracking is an efficient, relatively low temperature process using hydrogen and a catalyst.

Catalytic Hydrotreating. A process for treating petroleum fractions (e.g., distillate fuel oil and residual fuel oil) and unfinished oils (e.g., naphthas, reformer feeds and heavy gas oil) in the presence of catalysts and substantial quantities of hydrogen to upgrade their quality.

Catalytic Reforming. The use of controlled heat and pressure with catalysts to effect the rearrangement of certain hydrocarbon molecules without aftering their composition appreciably; the conversion of low-octane

gasoline fractions into higher octane stocks suitable for blending into finished gasoline; also the conversion of naphthas to obtain a more volatile product of higher octane number.

Conventional. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of a metal and a non-metal (e.g., platinum, alumina).

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratified carbonaceous rocks are either solld or brittle and are highly combustible. Includes lignite, bituminous coal, and anthracite coal which conform to ASTM Specification D388.

Crude Distillation. The refining process of separating crude oil components by heating and subsequent condensing of the fractions by cooling.

Crude Oil (Including Lease Condensate). A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, glisonite and oil shale. Drip gas is also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where identifiable. Crude oil is considered as either domestic or foreign according to the following:

Domestic. Crude oil produced in the United States or from its outer continental shelf as defined in 43 U.S.C. 1331.

Foreign. Crude oil produced outside the United States.

Delayed Coking. A process to produce low Conradson carbon gas for catalytic cracking feedstock and for gasoline.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations, it is used primarily for space heating, on-and-off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils; No. 1, No. 2, and No. 4 diesel fuel.

No. 1 Fuel Oil. A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D396 specifies for this grade maximum distillation temperatures of 420 degrees F, at the 10-percent point and 550 degrees F, at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees F.

No. 2 Fuel Oil. A distillate fuel oil for use in atomizingtype burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D396 specifies for this grade distillation temperatures at the 90-percent point between 540 degrees and 640 degrees F., and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees F.

No. 1 and No. 2 Diesel Fuel Olls. Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D975:

No. 1-D. A volatile distillate fuel oil with a boiling range between 300-575 degrees F. and used in high-speed diesel engines generally operated under wide variations in speed and load. Includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specifications D975.

No. 2-D. A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees F, for use in high-speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D975.

No. 4 Fuel Oil. A fuel oil for commercial burner installations not equipped with preheating facilities, it is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees F. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel engines that conforms to ASTM Specification D975.

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asla, Africa, and Australia. The Hawalian Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethane. A normally gaseous paraffinic compound (C2H6) extracted from natural gas and refinery gas streams. "Ethane" includes any products containing 90 percent liquid volume or more ethane.

Ethane-Propane Mixtures. Mixtures of ethane and propane in which neither component is 90 percent or more of the liquid volume. It is extracted from natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, (C2H4) recovered from refinery or petrochemical processes.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

Fluid Coking. A thermal process utilizing the fluidizedsolids technique for continuous conversion of heavy, low-grade oils into lighter products.

Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation or motor gasoline.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. Derives its name from having originally been used in the manufacture of illuminating gas. Now supplies distillate-type fuel oils and diesel fuel, also cracked to produce gasoline.

Imported Crude Oil Burned as Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sand oil, glisonite, and oil shale.

isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule. Used to convert normal butane into isobutane, an alkylation process feedstock, and normal pentane and hexane into isopentane and isohexane, high-octane gasoline components.

Kerosene. A petroleum distillate that bolls at a temperature between 300-550 degrees F., that has a flash point higher than 100 degrees F. by ASTM Method D56, that has a gravity range from 40-46 degrees API, and that has a burning point in the range of 150-175 degrees F. Included are the two classifications recognized by ASTM D-3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees F. Kerosene is used in space heaters, cook stoves, and water heaters and is suitable for use as an illuminant when burned in wick lamps.

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7 degrees API, a 10 percent distillation temperature of 400 degrees F. It is covered by ASTM Specification D1655 and Military Specifications MIL-T-5624L (Grades JP-5 and JP-8). A relatively low-freezing point distillate of the kerosene type; It is used primarily for commercial turbojet and turboprop alreraft engines.

Lease Condensate. A natural gas Ilquid recovered from gas well gas (associated and non-associated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Liquefied Petroleum Gases (LPG). Propane, propylene, butanes, butylene, butane-propane mixtures, ethane-propane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas plant liquids.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the liquid state. The reported categories are ethane and/or ethylene, propane and/or propylene, butane and/or butylene, butane-propane mixtures, and isobutane. Excludes still gases used for chemical or rubber manufacture which are reported as a petrochemical feedstock and also excludes liquefied gases ready for blending into gasoline which are reported as gasoline blending components. Liquefied refinery gases are reported for use as petrochemical feedstocks or other uses.

Lubricating Oils. A substance used to reduce friction between bearing surfaces. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Lubricants includes all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. The three categories include Bright Stock, Neutral, and Other.

Bright Stock. A refined, high viscosity lubricating oil base stock that is usually made from residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.

Neutral. A distillate lubricating oil base stock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100 degrees F. It is prepared by a treatment such as hydrofining, acid treatment, or solvent extraction.

Other. A lubricating oil base stock used in finished lubricating oils and greases, including black, coastal, and red oils.

Middle Distillates. A general classification that includes distillate fuel oil and kerosene.

Miscellaneous Products. Includes all finished products not classified elsewhere, e.g., petrolatum, absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, speciality oils and medicinal oils.

Motor Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished motor gasoline. Pool gasoline is included in this category.

Motor Gasoline, Finished. A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D439 or Federal Specification VV-G-1690B, include a boiling range of 122 degrees to 158 degrees F. at the 10-percent point to 365 degrees to 374 degrees F. at the 90-percent point and a Reid vapor pressure range from 9 to 15 psi. Motor gasoline includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Leaded Gasoline. Contains more than 0.05 gram of lead per gallon or more than 0.005 gram of phosphorus per gallon. The actual lead content of any given gallon, however, may vary as a function of the size of the producer and company according to specific Environmental Protection Agency waiver provisions. Premium and regular grades are included, depending on the octane rating, includes leaded gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Unleaded Gasoline. Contains not more than 0.05 gram of lead per gallon and not more than 0.005 gram of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating. Includes unleaded gasohol. Blend stock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Gasohol. A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol.

Motor Gasoline, Total. Includes finished leaded motor gasoline, finished unleaded motor gasoline, motor gasoline blending components, and gasohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F., meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs,

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, butane, natural gasoline, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas ilquids extracted by fractionators are also included. These liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials, and are classified as follows: Ethane, propane, ethane-propane mix, isobutane, butane, butane-propane mix, isopentane, natural gasoline, plant condensate, unfractionated stream, and other products from natural gas processing plants (i.e., products meeting the standards of finished petroleum products produced at natural gas processing plants, such as finished

motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, C5H12, obtained by fractionation of natural gasoline or isomerization of normal pentane.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Ecuador, Gabon, Idonesia, Iran, Iraq, Kuwalt, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Operable Distillation Capacity. The maximum amount of input that can be processed by a crude oil distillation unit in a 24-hour period, making allowances for processing limitations due to types and grades of inputs, ilmitations of downstream facilities, scheduled and unscheduled downtimes, and environmental constraints. Includes any shutdown capacity that could be placed in operation within 90 days.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes hydrogen, coal tar derivatives, glisonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Petrochemical Feedstock Use. Chemical feedstocks derived from petroleum, principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are Naphtha-less than 400 degrees F. end-point and Other olis-over 400 degrees F. end-point.

Naphtha-Less Than 400 Degrees F. End-Point. A naphtha with an end point of less than 400 degrees F. that is reported as used as a petrochemical feed-stock.

Other Oils-Over 400 Degrees F. End-Point. Oils with an end point over 400 degrees F, that is reported as used as a petrochemical feedstock.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is five parrels of 42 U.S. gallons per short ton.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This green coke may be sold or further purified by calcining.

Catalyst Coke. In many catalytic operations (i.e., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refinery process. This carbon or coke is not recoverable in a concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (Including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, natural gasoline and isopentane, plant condensate, unfractionated stream, liquefied petroleum gases, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, naphtha less than 400° F. end-point, other oils-over 400° F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Primary Stocks. Stocks of crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks excludes stocks of foreign origin that are held in bonded warehouse storage.

Propans. A normally gaseous paraffinic compound, C3H8, which includes all products covered by NGPA Specification for commercial and HD-5 propane and ASTM Specification D1835. It is used primarily as a fuel and as a petrochemical feedstock.

Propylene. An olefinic hydrocarbon, C3H6, recovered from refinery or petrochemical processes.

Residual Fuel Oil. The topped crude of refinery operation which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D396 and Federal Specification VV-F~815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes. Includes imported crude oil to be burned as a fuel.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust pallative and surface treatment on roads and highways. It is generally produced in

six grades from 0, the most liquid, to 5, the most viscous.

Special Naphthas. All finished products within the gasoline range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point and have a boiling range of 90 degrees to 220 degrees F. Special naphthas includes all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a reflnery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gas produced in refineries by distillation cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, butane, butylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and/or refinery fuel use.

Petrochemical Feedstock Use. Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such streams returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butadlene, etc., are considered petrochemical products; therefore, only their feed-stock equivalents are included.

Fuel Use. All other still gas.

Strategic Petroleum Reserve (SPR). Stocks (currently, only crude oil) maintained by the Federal Government for use during periods of major supply interruption.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking is used to increase the yield of gasoline obtainable from crude oil.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanical blending.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those included in plant condensate. This product is extracted from natural gas.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique, with its relatively low temperatures, prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy vacuum-still bottoms produced on the primary

distillation unit are cracked to increase production of distillate products.

Wax. A solid or semi-solid material derived from petroleum distillates or residues by such treatments as chilling, precipitating with a solvent, or de-oiling. It is lightcolored, more-or-less translucent crystailine mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades included are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42gallon barrel.

Microcrystalline Wax. Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

Penetration at 77 degrees F. (D-1321)-60 maximum. Viscosity at 210 degrees F. In Saybolt Universal Sec-

onds (SUS) (D-88)-60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum. Oil content (D-721)-5 percent minimum.

Crystalline-Fully Refined Wax. A light-colored paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) maximum. Oll Content (D-721)-0.5 percent maximum. Other + 20 color, Saybolt minimum.

Crystalline-Other Wax. A paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) maximum. Oil Content (D-721)-0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and the surrounding waters.

Bureau of Mines Petroleum Refining Districts and PAD Districts

The following are the Bureau of Mines petroleum refining districts which make up the PAD districts.

PAD District I

East Coast: District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Fiorida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian #1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

PAD District II

Appalachian #2: The following counties of the State of Ohio: Erie, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.

Indiana—Illinois—Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of the State of Ohio not Included in the Appalachian District.

Minnesota—Wisconsin—North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma—Kansas—Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Guif Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following countles of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following countles of the State of Alabama: Mobile and Baldwin.

North Louisiana—Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

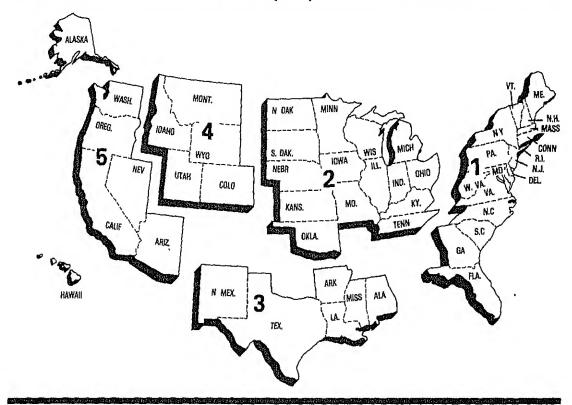
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

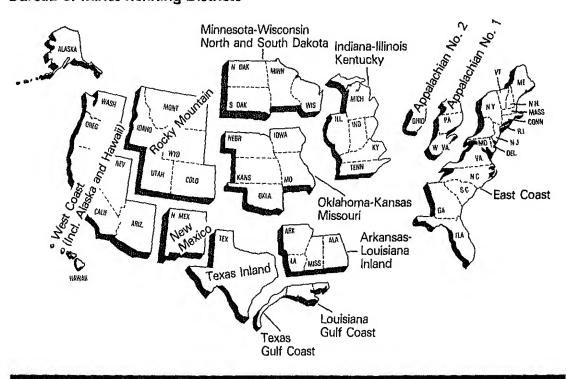
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawali.

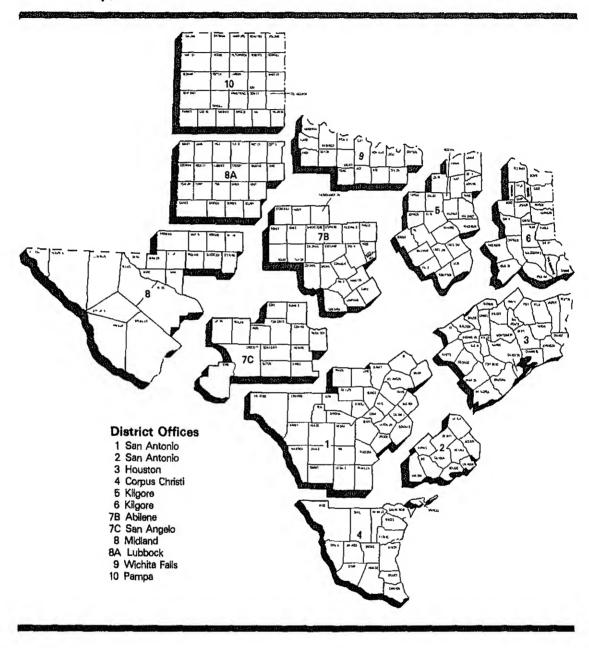
Petroleum Administration for Defense (PAD) Districts

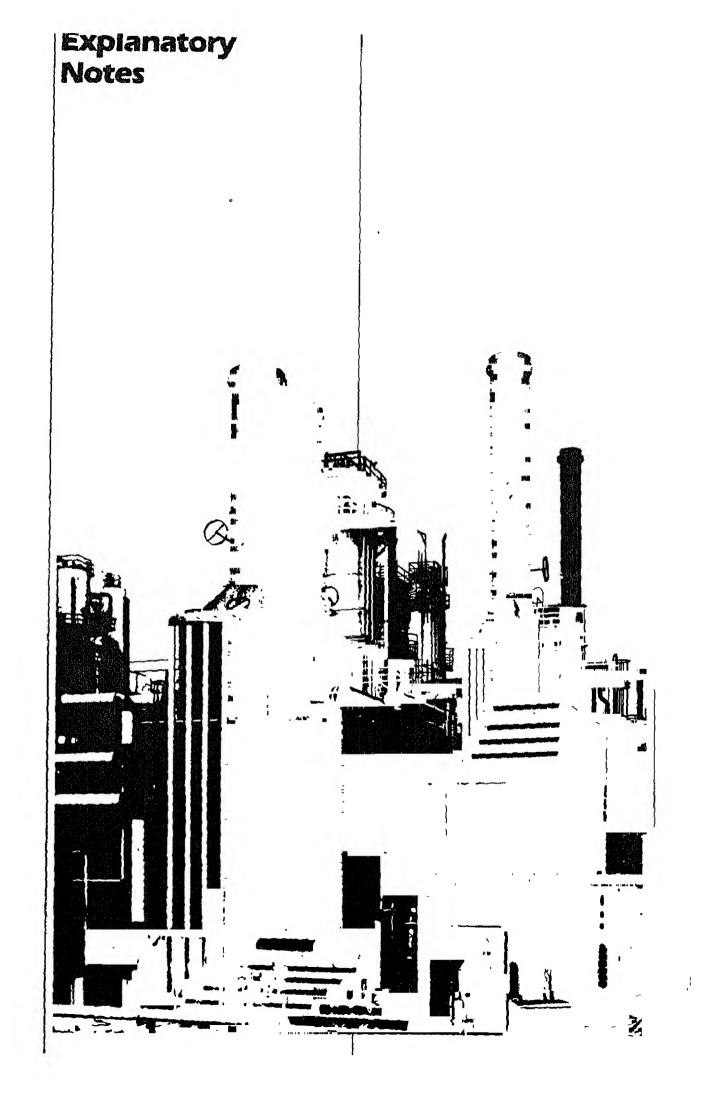


Bureau of Mines Refining Districts



District Map Oil and Gas Division Railroad Commission of Texas





Note 1: Data Collection Methodology

Background

Beginning in January 1983, the Energy Information Administration (EIA) unified its petroleum supply data collection activities into the Petroleum Supply Reporting System (PSRS). The PSRS represents a family of data collection survey forms, data processing systems and publication systems that have been consolidated to achieve comparability and consistency throughout. The primary focus of the consolidation has been to revise the weekly and monthly survey reporting forms to assure consistency in form layout, preparation instructions, and definitions. As a result, a new set of survey forms were implemented in January 1983. The following are the new form numbers and their corresponding predecessor forms:

New Form Number	Nama	Old Form
EIA-800	Name	Number
EIA-600	Weekly Refinery Report	EIA-161
EIA-801	Weekly Bulk Termi- nal Report	EIA-162
EIA-802	Weekly Product Pipe- line Report	EIA-163
EIA-803	Weekly Crude OII Stocks Report	EIA-164
EIA-804	Weekly Imports Re-	EIA-165
EIA-805	Weekly Shipments- from Puerto Rico to the United States Report	-
EIA-810	Monthly Refinery Report	EIA-87
EIA-811	Monthly Bulk Terml- nal Report	EIA-88
EIA-812	Monthly Product Pipeline Report	EIA-89
EIA-813	Monthly Crude OII Report	EIA-90
ERA-60	Monthly Imports Re-	ERA-60
EIA-815	Monthly Shipments from Puerto Rico to the United States Report	FEA-P133- M-0
EIA-816	Monthly Natural Gas Liquids Report	EIA-64
EIA-817	Monthly Tanker and Barge Movement Report	EIA-170

Forms EIA-800 through 805 comprise the Weekly Petroleum Supply Reporting System (WPSRS). This system is designed to collect basic refinery operations and product stock data for major products on a weekly basis. Data from the WPSRS are published in the Weekly Petroleum Status Report (WPSR) and are also used to calculate the preliminary statistics in the "Summary Statistics" section of the Petroleum Supply Monthly (PSM). A description of the WPSRS survey forms follows in Note 1.1.

Forms EIA-810-813, 815-817 and ERA-60 comprise the Monthly Petroleum Supply Reporting System (MPSRS). These surveys collect detailed refinery operations data, refinery, bulk terminal and pipeline stocks data, crude oil and petroleum product imports data and movements of petroleum products and crude oil between PAD Districts data. These surveys are the primary source of data for the "Summary Statistics" and "Detailed Statistics" sections of the PSM. A description of MPSRS survey forms follows in Note 1.2.

Data are also obtained in magnetic tape form from the Bureau of the Census on a monthly basis. These tapes contain aggregated import and export statistics that are used in the preparation of the *PSM*. A description of the Census data follows in Note 1.3.

Note 1.1: Weekly Petroleum Supply Reporting System (WPSRS)

Background

The EIA first began publishing weekly petroleum supply statistics in April 1979 in response to the Iranian oil crisis. Initially, the published data were taken from the American Petroleum Institute (API) Weekly Statistical Bulletin. However, in January 1980 the EIA began to publish weekly statistics from its own surveys, with the exception of imports statistics which the EIA did not begin collecting until June 1980.

The weekly surveys collect data comparable to those collected on a monthly basis. Selected petroleum companies report weekly data to the EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. On Form EIA-805, a company shipping unfinished oils and finished petroleum products into the United States from Puerto Rico reports each shipment. Current weekly data and the most recent monthly data are used to estimate the totals that are published in the Weekly Petroleum Status Report.

Sample Frame

The sample of companies that report weekly is selected from the universe of companies that report on the comparable monthly surveys. Sampled companies report data only for facilities in the 50 States and District of Columbia.

The sample for each survey is taken from the following universe:

EIA-800: Based on the EIA-810 universe, which includes all petroleum refineries in the United States and

its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and plants that produce finished motor gasoline through mechanical blending. The selected sample size is 215.

EIA-801: Based on the EIA-811 universe, which includes all bulk terminal facilities in the United States and its territories that have either a total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The selected sample size is 93.

EIA-802: Based on the EIA-812 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that transport only natural gas liquids are not included in the EIA-802 frame. Only those pipeline companies that transport products covered in the weekly survey are included. The selected sample size is 65.

EIA-803: Based on the EIA-813 universe, which consists of all companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (Including interstate, Intrastate, and Intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-804: Based on the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico. The selected sample size is 65.

EIA-805: Based on the EIA-815 universe, which includes all shippers of unfinished oils and petroleum products into the United States from Puerto Rico. Four companies report.

Sampling Method

The cut-off method is the sampling procedure used for all weekly surveys except the EIA-802, which uses the monthly universe in its entirety. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous 12-month period. Companies are chosen for the sampling, beginning with the largest and adding companies until the total sample covers 90 percent of the total for the previous time period for each product published in the Weekly Petroleum Status Report.

Collection Methods

Data are collected by mail, maligram, telephone, Telex, and Telefax on a weekly basis. The report period closes each Friday at 7 a.m. All canvassed firms and terminal operations companies must file by 5 p.m. on the following Monday.

Estimation and Imputation

After company reports have been checked and entered into the weekly data base, weekly totals for given products are estimated by using the following formula.

The total reported by all companies for the most recent month (M_i) is divided by the amount reported by the sample of companies for the most recent month (M_a) . The result is multiplied by the amount reported by the sample of companies for the current week (W_s) . The answer, W_t , is an estimate of the amount that would have been reported by all companies for the current week if all companies reported each week.

$$W_1 = \frac{M_t}{M_s} (W_s)$$

This procedure is used to estimate total weekly inputs to refineries and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a companyby-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly values and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unilcensed products because of coverage differences between the monthly imports data and Census data.

Explicit Imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

Response Rates

The response rate for the published estimates is usually between 95 and 98 percent.

Note 1.2: Monthly Petroleum Supply Reporting System (MPSRS)

Background

The MPSRS was implemented in January 1983 as the result of an extensive effort to Integrate the collection and processing of petroleum supply data that have been collected on other survey forms for many years. The collection of monthly petroleum supply statistics began as early as 1918 when the Bureau of Mines (BOM) began collecting data on refinery operations and crude oil stocks and movements. The collection systems

were further expanded to include natural gas plant liquids production and storage in 1925, imports of crude oil and petroleum products and storage and movements of petroleum products in 1959, and tanker and barge movements of crude oil and petroleum products in 1964. Since their inception, each survey has undergone numerous changes, but the MPSRS is the first effort to make them all consistent and comparable.

Respondent Frame

EIA-810: All petroleum refinerles and plants that produce finished motor gasoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, the Hawaiian Foreign Trade Zone, and Guam. Approximately 313 respondents report on the EIA-810.

EIA-811: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virgin Islands that (a) have a total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline, regardless of ownership of the material. Approximately 328 respondents report on the EIA-811.

EIA-812: All products pipeline companies that carry petroleum products (including interstate, intrastate and intracompany pipelines) in the 50 States and the District of Columbia. Approximately 94 respondents report on the EIA-812.

EIA-813: All companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-815: All licensed importers and importers of record shipping petroleum products from Puerto Rico Into the 50 States and the District of Columbia.

Import data from the ERA-60 and EIA-815 are Integrated into the import statistics reported in the *PSM*.

EIA-816: All operators of facilities designed to extract liquid hydrocarbons from natural gas stream (natural gas processing plants) or to separate a hydrocarbon stream into its component products, i.e., propane, butane, natural gasoline, etc. (fractionators). Approximately 990 respondents report on the EIA-816.

EIA-817: All known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal. There are about 50 respondents.

ERA-60: All licensed importers and importers of record importing crude oil and petroleum products into the

United States and Puerto Rico. The respondent universe consisted of approximately 1,100 firms as of July 31, 1982. However, only a selected 250 importers must report each month regardless of import activity. All others must report only for a month in which they actually had imports. The respondent universe for this survey is updated whenever an import license is granted by the Office of Oil imports of the ERA.

EIA utilizes a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review industry publications such as the Oil and Gas Journal and LP Gas Almanac for Information on facilities or companies going into operation or closing down. These are augmented by articles in newspapers, letters from respondents indicating changes in status and information received from survey systems operated by other offices.

Periodically an extensive survey study is conducted to completely refresh the frames. This involves consolidating information from every known source including State agencies, federal agencies (e.g., EPA, Corps of Engineers, Census Bureau, etc.), and private industry directories. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data published from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame,

Collection Methods

The data for all of the MPSRS surveys are collected monthly. Completed forms are required to be post-marked by the 20th day following the end of the report month, with the exception of the EIA-815 and ERA-60 which are due 15 work days following the end of the report month. Telephone follow-up calls are made to non-respondents prior to the publication deadline, for their data. An automated mailing list is maintained and is used to monitor receipt of the forms.

Imputing Missing Data

Imputation is performed only for nonresponding companies that submitted reports the previous month. For such companies, previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. In the event that the previous month's data were estimated, the respondent is contacted and requested to submit estimates, if necessary, to be followed by submission of actual data. Data for nonrespondents on the EIA-815 and 817, and ERA-60 are not imputed.

Response Rates

As of the filing deadline, the response rates of the EIA-810 through EIA-813 respondents is over 90 per-

cent. The response rate for the EIA-816 is over 85 percent and for the EIA-817 it is 98 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Names of companies that fail to file for 2 consecutive months are forwarded for further noncompliance action.

In July 1982, the ERA-60 survey had a response rate of 98 percent by the filing deadline. The universe was 1,100 firms at that time. (Because this is a dynamic survey, the universe is constantly changing.) Standard follow-up of nonrespondents is made to insure that all reports are received, since data are not imputed for nonrespondents. In addition, response is crosschecked with response on the Petroleum Licensing Decrementation System (PLDS), a listing of each month's importers. The response rate is generally 98 to 99 percent by the time the data are first published.

Note 1.3: Census Import (IM-145) and Export (EM-522 and EM-594) Data

Background

Each month the EIA purchases magnetic tapes of aggregated import and export statistics from the Bureau of the Census. These data provide the only source of export statistics and are used to augment the import data collected by the EIA. Export statistics and import data from the Census tapes on liquefled petroleum gases, bonded ships bunkers and military offshore use are published in the PSM.

Import Statistics (IM-145)

Coverage

The import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- Merchandise in-transit through the United States, when documented with Customs as an in-transit movement.
- 2. Shipments from anywhere to U.S. possessions and shipments from U.S. possessions to the United States, (U.S. possessions Include Puerto Rico, the Virgin Islands, Guam, and American Samoa.)
- 3. U.S. merchandise that was held in foreign countries by the U.S. Armed Forces and is returned to the United States for the use of the Armed Forces.

Source of Import Information

The official U.S. import statistics are compiled by the Bureau of the Census from copies of the import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs Forms 7501, 7505, and 7506).

Imported petroleum is reported as *Imports for Consumption*. Imports for consumption are a combination of entries for immediate consumption and withdrawals from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

Export Statistics (EM-522 and EM-594)

Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchandise from the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the exception of the following types of transactions:

- 1. All shipments from U.S. possessions, regardless of whether the shipments are sent to the United States, to other U.S. possessions, or to foreign countries.
- 2. Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- 3. Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Exporters are required to file Shipper's Export Declarations with Custom's officials. The only exceptions are those exporters who have been authorized to submit data directly to the Bureau of Census on magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations.

Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

Note 2: Supply

The components of petroleum supply are field production, refinery production, imports, and stock withdrawal or addition:

Field Production is the sum of crude oil production (including lease condensate), natural gas processing plant production, and new supply (field production) of other liquids used by refineries.

Crude oil production is estimated based on data received from State conservation and revenue agencies. For further explanation, see Explanatory Note 3.

Field production of natural gas plant liquids (NGPL), Including finished petroleum products, is reported monthly on survey Form EIA-816, Monthly Natural Gas Liquids Report. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.2.

Refinery Production of LRGs, ethane, and finished petroleum products is reported monthly on survey Form EIA-810, Monthly Refinery Report. Published production of these products equals refinery production minus refinery input. Refinery production of unfinished oils and of motor and aviation gasoline blending components appears on a net basis under refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. It should also be noted that refinerles do not export production of crude oil, natural gasoline, isopentane, unfractionated stream, plant condensate, or other hydrocarbons.

imports of crude oil and petroleum products are reported monthly on Form ERA-60, Report of Oil Imports into the United States and Puerto Rico, and Form EIA-815, Shipments of Refined Products (Including Untinished Oils) from Puerto Rico to the United States. In addition, the Census Bureau Tabulation IM-145 summarizes import data from Customs import declarations reported on Customs Forms 7501 and 7505. The most prominent difference between the EIA and Census systems appears in imports of liquefied petroleum gases

(LPG), where the Census data show a much higher level of Imports than EIA data. This occurs because the ERA-60 respondent frame was built by monitoring importers of licensed products and LPGs are not licensed products. Therefore, respondents that import only LPGs have not been identified, and do not report these imports to the Department of Energy. Since these Importers are required to file form 7501 with the U.S. Customs Service, EIA obtains data on Imports of LPGs from Census Tabulation IM-145. Additional data taken from the IM-145 are relatively small quantities of naphthaand kerosene-type jet fuels, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in international trade and for military offshore use. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included In the ERA-60 reporting system.

Stock Withdrawal (+) or Addition (-) is calculated by subtracting stocks at the end of the month from stocks at the beginning of the same month. (Note: The beginning stocks of one month are equal to the ending stocks of the previous month.) A positive result (+) would represent a withdrawal from stocks and an increase in petroleum supplies distributed for domestic consumption. A negative result (-) would represent a buildup of stocks and a reduction in the amount of petroleum supplies distributed for domestic consumption. For a description of survey forms used to make stock withdrawal or addition calculations see Explanatory Note 5.

Unaccounted-for Crude Oil is a balancing Item that represents the difference between crude Oil supply and disposition.

Crude oil supply is the sum of field production, imports and stock withdrawals or additions. Crude oil disposition is the sum of exports, refinery input, losses and product supplied. Unaccounted for crude oil is calculated by subtracting crude oil supplies from crude oil disposition. A positive result indicates that refiners and exporters reported use of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reporting or other problems.) A negative result would indicate that more crude oil was reported to have been supplied to refiners and exporters than they reported used.

Note 3: Domestic Crude Oil Production

Data for the Crude Oil Production System (COPS) are reported to the Department of Energy by each of the State conservation agencies, which collect crude oil production values for tax purposes. The U.S. Geological Survey reports the volume of crude oil that is produced offshore in Federally-owned waters. With the exception of ten State conservation agencies, all of these reports are received monthly. After each calendar year, these monthly numbers are updated using the annual reports

from the State conservation agencies and the U.S. Geological Survey. The ten States that do not report monthly values are indiana, Kentucky, Missouri, Arkansas, Utah, New York, Ohio, Pennsylvania, West Virginia, and Wyoming. Monthly values are estimated for these States using the individual linear trends of their historical annual crude oil production values.

There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly COPS information becomes available. Table 11 of this publication provides information on crude oil production for the most recent month for which COPS values are available. In order to present more timely crude oil production values, the EIA's Dallas Field Office prepares a series of State level estimates which are based on historical production patterns and are summed to obtain the monthly crude oil production values shown in the summary statistics of this publication

The individual State level estimates are either exponential curve fitted projections based on recent data or are constant level projections based on the average production rate during a recent time period. In some cases, adjustments are made to these estimates based on additional information on expected changes in production rates supplied by a State agency, a trade association, or an individual field operator.

Note 4: Disposition

The components of petroleum disposition are crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Crude Oil Losses is the sum of crude oil losses at refineries. Crude oil losses at refineries are reported on Form EIA-810, Refinery Report.

Refinery inputs of crude oil, natural gas plant liquids, and other liquids are reported monthly on survey Form EIA-810, Monthly Refinery Report. Published inputs of unfinished oils and of motor and aviation gasoline blending components equal refinery input minus refinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production.

Exports of crude oil and petroleum products are complled from Census Bureau tabulations EM-522 and EM-594. Exports include crude oil shipments to Puerto Rico, the Virgin Islands, and the Hawailan Foreign Trade Zone, which are obtained from refinery receipts reported on Form EIA-810, by refineries located in these places.

Product supplied for each product is calculated by summing field production plus refinery production, plus imports, plus stock withdrawal or minus stock addition, minus crude oil losses (plus net receipts when calculated on a PAD District basis), minus re-

finery input, minus exports. This formula ensures that total disposition equals total supply.

Products supplied indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of that product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported, (2) data were misreported or reported late, (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of interdistrict movements was incomplete.

Product supplied for crude oil is the sum of crude oil burned on leases and by pipelines as fuel oil. These data are reported on EiA-813, Monthly Crude OII Report. Prior to January 1983, crude oil burned on leases and by pipelines as fuel oil were reported as either distillate or residual fuel oil and included in product supplied for these products.

Note 5: Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-810, Monthly Refinery Report, and on Form EIA-813, Monthly Crude Oll Report, Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oll in transit is also included. Stocks of crude oil are also reported weekly on Form EIA-800, Weekly Refinery Report, and on Form EIA-803, Weekly Crude Oil Stocks Report. Primary stocks of petroleum products are summed from data reported on Form EIA-816, Monthly Natural Gas Liquids Report, Form EIA-811, Monthly Bulk Terminal Report, and on Form EIA-812, Monthly Product Pipeline Report. Primary stocks of petroleum products do not include either secondary stocks held by dealers and Jobbers or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-800, Weekly Refinery Report, Form EIA-801, Weekly Bulk Terminal Report, and Form EIA-802, Weekly Crude Oil Stocks Report, For survey descriptions and other details, see Explanatory Notes 1.1 - 1.3.

Note 6: Average Stock Levels

The graphs displaying monthly stock levels of crude oil, motor gasoline, distillate fuel oil, residual fuel oil, liquefied petroleum gases, and other products provide the user with recent data as well as a summary of data from January through December or from July through June for the most recent 3-year period. This summary takes the form of an average range that includes seasonal variation determined from a longer time period. The

average range represents the historical pattern; it is not a forecast.

These curves are updated semiannually (on Arpil 1 and October 1), by basing the average ranges on a more recent time period. Each 3-year data series is adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of the Census (Census X-11). The seasonal factors are assumed to be stable (l.e., unchanging from year to year) and additive. The series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported stock levels. The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and irregularities as the original data. For crude oil stocks, the derived seasonal factors are very small relative to crude oil stock levels. Therefore, the seasonal factors for distillate fuel oil, residual fuel oil, liquefled petroleum gases and other products are derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors are based on monthly data from 1975, 1976, 1978, 1979 and 1980. In 1977, there was virtually no seasonal behavlor in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the seasonal patterns in 1973, 1974 and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the illustrated seasonal patterns for crude oil, distillate fuel oil, residual fuel oil, liquefled petroleum gases and other products is stronger than is the evidence for the illustrated seasonal patterns for motor gasoline.

In some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

After seasonal factors are derived, the most recent 3-year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard error of the deseasonalized 36 months is calculated adjusting for extreme data points. The width of the average range is twice this standard error.

The upper curve of the average range is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

Note 7: Movements

Movements of crude oil between PAD Districts are reported on Form EIA-817, Monthly Tanker and Barge Movement Report, and on Form EIA-813, Monthly Crude Oil Report. Petroleum product movements are reported on Forms EIA-817 and EIA-812, Monthly Product Pipeline Report. Net receipts is the difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge. For survey descriptions and other detail, see Explanatory Note 1.2.

Note 8: Preliminary Monthly Statistics

Weekly data (Forms EIA-800, 801, 802, 803, and 804) are used to estimate the most recent monthly values for the Summary Statistics section. Since some of the weekly reporting periods overlap two adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To estimate crude oil and petroleum product imports, crude oil input to refineries and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

End-of-month stock levels of crude oil and the major products (motor gasoline, distillate fuel oil, and residual fuel oil) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is calculated by first calculating the stock change between the two weeks. The daily stock change between the two end-of-week stock levels is then calculated. This number is multiplied by the weighting factor of the earlier of the two weeks (the week that covers the last day of the month of interest). This change is added to the earlier of the two end-of-week stock levels to estimate the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 3.

Note 9: Notes on Tables

Note 9.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

• Crude Oil and Petroleum Products Stock Withdrawal (+) or Addition (-), Petroleum Products Supplied, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.

- Natural Gas Plant Production is the sum of Natural Gas Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports is the sum of Natural Gas Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousands of barrels in Table 2.

Note 9.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.

- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Withdrawal (+) or Addition (-), Unaccounted For Crude OII, Refinery Inputs, and Exports appear as labeled in Table 1.
- Crude losses and Product Supplied appear as labeled in Table 4.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousands of barrels in Table 1.
- Total Crude Oil Ending Stocks appear in thousands of barrels in Table 2.
- Total Imports appear In Table 4.

Note 9.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.
- Ending Stocks appear in thousands of barrels in Table 2.

Note 9.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawai (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.

• Ending Stocks appear in thousands of barrels in Table 2.

Note 9.5 Liquefied Petroleum Gases Supply and Disposition statistics represent the aggregation of statistics on ethane, propane, butane, butane-propane mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stocks Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- Ending stocks appear in thousands of barrels in Table 2.

Note 9.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.

- Total Production is the aggregated sum of Fleid Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousands of barrels in Table 2.

Note 9.7 Table 1. U.S. Petroleum Balance

- Lines (1) through (3): Crude oil (including lease condensate) production for Alaska, Lower 48 States, and Total U.S. are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production in the United States (see Explanatory Note 3), and taking the difference to equal production in the Lower 48 States.
- Line (5): SPR Imports are reported on Survey Form ERA-60.
- Line (12): Total Other Sources equals crude oll stock withdrawal (+) or addition (-) plus unaccounted for crude oil minus crude losses in Table 2.
- Line (14): Natural gas plant liquids (NGPL) *Production* equals field production of natural gas liquids (NGL) plus field production of finished petroleum products in Table 2.
- Line (15): NGPL imports equals the sum of the im-

ports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.

- Line (16): NGPL Stock Withdrawai (+) or Addition (-) is equal to the sum of stock withdrawai (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) equals the sum of lines (14), (15), and (16).
- Line (18): Unfinished oils and gasoline blending components Stock Withdrawal (+) or Addition (-) equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.
- Line (20): Other Hydrocarbons and Alcohol New Supply equals the field production of same in Table 2.
- Line (21): Refinery Processing Gain is a balancing item equal to total refinery production minus total refinery input in Table 2.
- Line (23): Total Other Liquids equals the sum of lines (18) through (22).
- Line (24): Total Production of Products equals crude oil input to refinerles plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil product supplied in Table 2.
- Line (25): Gross Imports of Refined Products equals Imports of LPG plus imports of finished petroleum products in Table 2.
- Line (26): Exports of Refined Products equals exports of LPG plus exports of finished petroleum products in Table 2.
- Line (27): Net Imports of Refined Products equals the difference between lines (25) and (26).

- Line (28): Total New Supply of Products equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and Isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished olls, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; minus crude oil product supplied plus imports of LPG and finished petroleum products; minus exports of LPG and finished petroleum products in Table 2.
- Line (29): Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and finished petroleum products in Table 2.
- Line (30): Total Petroleum Products Supplied for Domestic Use equals total products supplied in Table 2.
- Lines (31) through (35) equal the respective products supplied in Table 2.
- Line (36): Other Products Supplied equals the sum of natural gasoline and Isopentane, unfractionated stream, plant condensate, aviation gasoline, naphtha < 400 Deg. F for petrochemical feedstock use, other oils > 400 Deg. F. for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt, road oil, still gas, unfinished oils, motor gasoline blending components, aviation gasoline blending components and miscellaneous products supplied in Table 2.
- Line (37): Total Product Supplied is equal to total products supplied in Table 2.
- The sum of lines (38) and (39), stocks of *Crude Oil* and Lease Condensate (Excluding SPR) and stocks held by the Strategic Petroleum Reserve, equals ending stocks of crude oil in Table 2. SPR stocks are reported on Form EIA-813.
- Line (43): stocks of *Refined Products*, equals the sum of LPG and finished petroleum product stocks in Table 2.

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